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# PROJECTIONS AND PLANNING INFORMATION



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(Sonoma County)

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**EMPLOYMENT DEVELOPMENT DEPARTMENT**



# **PROJECTIONS AND PLANNING INFORMATION**

## **SANTA ROSA METROPOLITAN STATISTICAL AREA (SONOMA COUNTY)**

### **Mailing Address:**

**Employment Development Department  
Labor Market Information Division, MIC 57  
P.O. Box 826880  
Sacramento, CA 94280-0001**

**For additional information for this county,  
call Idell Weydemeyer, (707) 648-4030  
or (916) 262-2162.**

**State of California  
Health and Welfare Agency**

# PROJECTIONS AND PLANNING INFORMATION

## SAN JOSE METROPOLITAN STATISTICAL AREA (SONOMA COUNTY)

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF ECONOMIC ANALYSIS  
WASHINGTON, D.C. 20540

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## **LABOR MARKET INFORMATION DIVISION**

### **MISSION**

WE PROMOTE CALIFORNIA'S ECONOMIC HEALTH BY PROVIDING INFORMATION TO HELP PEOPLE UNDERSTAND CALIFORNIA'S ECONOMY AND MAKE INFORMED LABOR MARKET CHOICES.

### **VISION**

WE ARE THE LABOR MARKET INFORMATION SOURCE FOR CALIFORNIA AND A NATIONAL LEADER IN LABOR MARKET INFORMATION. WE ARE AN INNOVATIVE, CREATIVE AND EXPERT CONSULTING ORGANIZATION; AN ECONOMIC DEVELOPMENT AND RESEARCH PARTNER; AND A PRESTIGIOUS AND HIGHLY CREDIBLE ORGANIZATION.



## LABOR MARKET INFORMATION DIVISION

### Mission

WE PROMOTE CALIFORNIA'S ECONOMIC HEALTH BY PROVIDING INFORMATION TO HELP PEOPLE UNDERSTAND CALIFORNIA'S ECONOMY AND MAKE INFORMED LABOR MARKET CHOICES.

### Vision

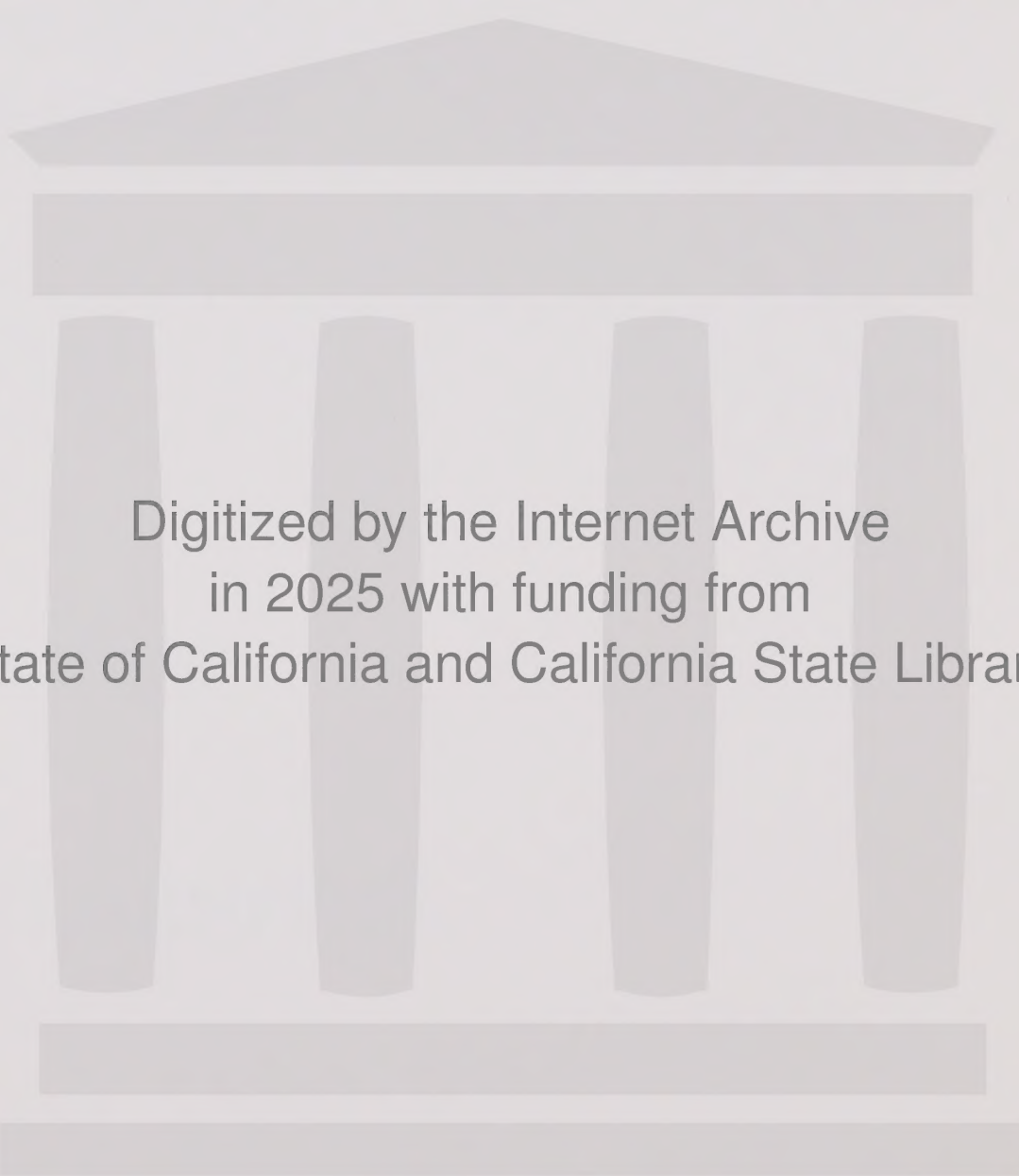
WE ARE THE LABOR MARKET INFORMATION SOURCE FOR CALIFORNIA AND A NATIONAL LEADER IN LABOR MARKET INFORMATION. WE ARE AN INNOVATIVE, DEBATE AND EXERT CONSULTING ORGANIZATION. AN ECONOMIC DEVELOPMENT AND RESEARCH PARTNER AND A PRESTIGIOUS AND HIGHLY CREDITED ORGANIZATION.

# *Projections & Planning Information*

## **Module A:**

# **Introduction**





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# PROJECTIONS AND PLANNING INFORMATION

1999 UPDATE

FOR

## SONOMA COUNTY

New Module A: INTRODUCTION

All Pages

(Replaces the old Modules A, G and J)

EMPLOYMENT DEVELOPMENT DEPARTMENT  
LABOR MARKET INFORMATION DIVISION

For questions about this report, call (916) 262-2309.



# PROTECTION AND PLANNING INFORMATION

1983 UPDATE

FOR

SONOMA COUNTY

New Module A: INTRODUCTION

(It replaces the old Module A: General)

THE COUNTY OF SONOMA  
COUNTY BOARD OF SUPERVISORS

APPROVED AND FORWARDED: JUNE 15, 1983



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# NOTE TO READERS

The Employment Development Department's Labor Market Information Division (LMID) regularly collects, analyzes, and publishes information about California's labor market, which consists of approximately 15 million workers and 970,000 employers. In addition to employment and unemployment data, LMID provides economic planning information, industry and occupational information, social and demographic information, and a variety of other statistics.

LMID produces the Projection and Planning Information (PPI) publication for 55 counties and the State. Each module within the PPI is designed to present data in the clearest and most usable form possible. The variety of reports within each module is intended to answer the most often asked questions. These reports are issued in modules that are updated as new information becomes available and are delivered to customers for inclusion in a three-ring binder.

## **Customers may choose some or all of the following modules:**

**Module A: Introduction** Information about the featured county and population tables providing data for the past and present. Additional resources for exploring various occupations.

- Area Profile
- Area Map
- County/City Population
- Population Estimates for California and Counties
- LMID Area Consultants
- Labor Market Information Product List
- O\*NET – The Occupational Network
- SOC – Standard Occupational Classification
- Job Service Offices
- EDD Internet Home Page
- Related Websites

**Module B: Labor Force** Current and historical labor force, employment, unemployment and unemployment rates

- Introduction
- State Map of Current Annual Average Rates by County
- Annual Average Unemployment Rates
- Monthly and Annual Average Data

**Module C: Wage and Salary Employment** Current and historical wage and salary employment data

- Introduction
- Annual Average Data
- Monthly Data
- Standard Industrial Classification Manual (SIC) - 1987



**Module D: Projections** – Information for estimating job opportunities, developing training programs, and gaining an insight into future employment trends.

- Introduction
- Description of Industry and Occupational Tables
- Industry Trends and Outlook
- Employment by Major Industry
- Industry Employment Projections
- Employment by Major Occupational Group
- Occupations with the Greatest Absolute Job Growth
- Occupations with the Fastest Job Growth
- Occupational Employment Projections
- Occupations with Most Openings
- Occupations with Projected Declines
- Alphabetical Index of Occupations
- Standard Industrial Classification Manual (SIC)
- North American Industry Classification System (NAICS)
- Methods and Economic Assumptions

**Module E: Occupational Wages** – Occupational Employment Statistics (OES) Wage Survey results and explanation of methodology

- Introduction
- Alphabetical List of Occupations
- Occupational Wages for Selected Counties

**Module F: Social and Economic Data** – Tables from the U.S. Department of Commerce, the Bureau of the Census, and various State agencies.

- Introduction
- State Map of Median Household Income by County
- Public Assistance Recipients by Program
- Aid to Families with Dependent Children, Characteristics of Recipients, 16 Yrs. and Older
- Veterans by Active Duty
- Lower Living Income Levels and Poverty Guidelines
- Planning Information for Service Delivery Areas, Selected Characteristics by Age
- Explanation of Terms and Concepts
- Nondiscrimination Information

# COUNTY INFORMATION





# Sonoma County

Sonoma County is the northernmost of the nine San Francisco Bay Area counties. Sonoma and each of the other eight counties (Alameda, Contra Costa, Marin, San Francisco, San Mateo, Santa Clara, Napa, and Solano) significantly contribute to the economy of the Bay Area as an urban center. Surrounding counties include Mendocino to the north; Lake and Napa to the east; and Marin to the south. The Pacific Ocean borders the county on the west and San Pablo Bay lies to the south.

The county covers 1,604 square feet with elevation ranging from sea level to over 4,000 feet at Mt. Saint Helena, located where Sonoma, Napa and Lake Counties converge. Santa Rosa, situated along U.S. Highway 101, is the county's largest city and serves as the seat of government. Petaluma and Rohnert Park are the second and third largest cities. Windsor, located near Santa Rosa, is the newest incorporated city with over 22,000 residents recorded in its first Census count.

Several highways cross the county; major highways include US Highway 101, which traverses the county in a north-south direction, and State Highway 1, which follows the coastline. State highways 12 and 116 also figure importantly in the county's transportation system. In addition, a main railroad line provides an artery for rail transportation. The Sonoma County Airport, located just outside Santa Rosa, handles commercial and passenger air traffic.

Sonoma County is a key producer of wine and farm products in California; the county is a leader in quantity, quality, and revenue. Sonoma has substantial open land, a relatively moderate cost of living standard, and extensive business parks for regulated growth. The county is an attractive option for small and medium-sized businesses and corporations looking for new or expansion sites.

## Sonoma County (Santa Rosa Metropolitan Statistical Area)

**Population of the County and Selected Cities  
1980, 1990, 2000, and 2001**

Political Subdivisions	1980 (a)	1990 (b)	2000 (c)	2001 (d)	Percent Change	
					1990 to 2000	2000 to 2001
<b>Total</b>	<b>299,681</b>	<b>388,222</b>	<b>458,614</b>	<b>468,800</b>	<b>18.1%</b>	<b>2.2%</b>
Cloverdale	3,989	4,924	6,831	7,150	38.7%	4.7%
Cotati	3,346	5,714	6,471	6,675	13.2%	3.2%
Healdsburg	7,217	9,469	10,722	11,300	13.2%	5.4%
Petaluma	33,834	43,184	54,548	55,900	26.3%	2.5%
Rohnert Park	22,965	36,326	42,236	42,650	16.3%	1.0%
Santa Rosa	82,658	113,313	147,595	150,900	30.3%	2.2%
Sebastopol	5,595	7,004	7,774	7,850	11.0%	1.0%
Sonoma	6,054	8,121	9,128	9,400	12.4%	3.0%
Windsor (e)	NA	NA	22,744	23,700	NA	4.2%
Balance of County	134,023	160,167	150,565	153,200	-6.0%	1.8%

(a) Census of Population, April 1, 1980.

(b) Census of Population, April 1, 1990.

(c) Census of Population, April 1, 2000.

(d) California Department of Finance revised estimates for January 1, 2001.

Parts may not add to total due to independent rounding.

(e) Incorporated after the 1990 Census.

NA-Not applicable

# Sonoma County







# RESOURCE INFORMATION



## Population Estimates for California and Counties

	January		Percent Change		January		Percent Change
	2000	2001			2000	2001	
California	34,207,000	34,818,000	1.8%	Orange	2,867,700	2,925,700	2.0%
Alameda	1,455,300	1,479,100	1.6%	Placer	248,700	257,500	3.5%
Alpine	1,200	1,220	1.7%	Plumas	21,000	21,100	0.5%
Amador	35,250	35,400	0.4%	Riverside	1,557,800	1,609,400	3.3%
Butte	204,600	205,800	0.6%	Sacramento	1,230,700	1,258,600	2.3%
Calaveras	40,950	41,100	0.4%	San Benito	53,800	55,200	2.6%
Colusa	19,050	19,200	0.8%	San Bernardino	1,726,800	1,764,300	2.2%
Contra Costa	955,900	972,100	1.7%	San Diego	2,835,400	2,883,600	1.7%
Del Norte	28,050	28,100	0.2%	San Francisco	781,900	793,700	1.5%
El Dorado	157,200	159,700	1.6%	San Joaquin	568,300	583,700	2.7%
Fresno	810,300	823,900	1.7%	San Luis Obispo	248,200	252,100	1.6%
Glenn	26,800	26,800	0.0%	San Mateo	713,900	720,100	0.9%
Humboldt	127,400	127,800	0.3%	Santa Barbara	403,500	408,900	1.3%
Imperial	146,600	150,900	2.9%	Santa Clara	1,698,800	1,723,700	1.5%
Inyo	18,250	18,150	-0.5%	Santa Cruz	258,000	259,800	0.7%
Kern	671,300	685,800	2.2%	Shasta	164,300	165,700	0.9%
Kings	132,100	136,100	3.0%	Sierra	3,580	3,560	-0.6%
Lake	58,700	59,300	1.0%	Siskiyou	44,750	44,300	-1.0%
Lassen	34,850	35,900	3.0%	Solano	396,900	403,400	1.6%
Los Angeles	9,643,100	9,802,800	1.7%	Sonoma	461,700	468,800	1.5%
Madera	125,800	129,400	2.9%	Stanislaus	451,000	459,900	2.0%
Marin	248,700	250,400	0.7%	Sutter	79,700	80,900	1.5%
Mariposa	17,200	17,200	0.0%	Tehama	56,400	56,800	0.7%
Mendocino	87,100	87,300	0.2%	Trinity	13,150	13,050	-0.8%
Merced	212,800	216,700	1.8%	Tulare	373,100	377,500	1.2%
Modoc	9,550	9,600	0.5%	Tuolumne	54,800	55,200	0.7%
Mono	12,950	13,350	3.1%	Ventura	759,400	773,500	1.9%
Monterey	405,200	410,800	1.4%	Yolo	169,300	173,500	2.5%
Napa	125,100	126,200	0.9%	Yuba	60,900	60,800	-0.2%
Nevada	92,300	94,000	1.8%				

SOURCE: State of California, Department of Finance, Population Estimates for California Cities and Counties.  
Report E-1. Sacramento, California, May 2001.



# O\*NET

## The Occupational Information Network

The *Occupational Information Network* (O\*NET) is the U.S. Department of Labor's recent replacement to the long-standing Dictionary of Occupational Titles (DOT). First released in 1998 and made available as an Internet application in 2001, O\*NET was created for the general public to provide broad access to occupational information.

The O\*NET system includes information on skills, abilities, knowledge, work activities, and interests associated with occupations. This information can be used to facilitate career exploration, vocational counseling, and a variety of human resources functions, such as developing job orders and position descriptions and aligning training with current workplace needs.

The gathering and classification of information was done with many different users in mind, including human resource personnel, industry analysts, students, rehabilitation counselors, workforce researchers, managers, displaced workers and more. Information in O\*NET is available for over 950 occupations. Each occupational title and code is based on the most current version of the Standard Occupational Classification system.

O\*NET OnLine offers users the chance to:

- Find occupations to explore, either by skill requirements or using key words
- Search for occupations that use their skills
- Look at related occupations with similar skills requirements
- View and print snapshot reports listing top tasks and skills requirements for an occupation
- View occupation details

- Use crosswalks to find occupations using titles from other classification systems
- Connect to other on-line career information resources to see current wage and outlook information
- Access comprehensive information on-line

The information currently available through O\*NET was developed by job analysts; however, workers and employers themselves, describing what they do and the necessary skills, will contribute to data and ratings beginning in the year 2003.

The U.S. Department of Labor's Employment and Training Administration looked to both public and private entities in the development of O\*NET. State-based Occupational Analysis Field Centers and Assessment Research and Development Program Centers provided regional support. Private sector firms are also assisting with the implementation of the project.

If it is to be current, comprehensive and inclusive, the O\*NET System will require a continuous process of database building. DOL welcomes the participation of employers or representatives of organizations that can contribute occupational information. The massive and growing O\*NET data collection and database will be maintained by the newly established National O\*NET Consortium.

For further information contact O\*NET:

O\*NET Project  
DOL Office of Policy and Research  
200 Constitution Ave., NW, MS N5637  
Washington, DC 20210  
(202) 693-3660

<http://www.doleta.gov/programs/onet/>

## AREA CONSULTANTS

Located strategically in cities and counties throughout California, the Area Services Group consists of 25 regional Labor Market Consultants. The Labor Market Consultants serve as the single point of contact for questions or analysis about local trends and conditions throughout California. Consultants provide technical assistance on the use of labor market information and are available to make presentations on a variety of labor market information subjects. They may also provide customized research services and products to fit specialized labor market information requests.

<b>County Name</b>	<b>Single Point of Contact</b>	<b>Public Telephone No.</b>	<b>Alternate Contact</b>	<b>Public Telephone No.</b>
Statewide	Information Desk	916-262-2162		
Alameda	Jeanette Miller	925-602-1588	Paak-Yih Tam	415-920-2423
Alpine	Quentin Turner	916-774-4384	David Lyons	916-227-2015
Amador	Ismael Tapia	209-941-6551	Quentin Turner	916-774-4384
Butte (Chico)	Brandy Daniel	530-895-4300	Kathy Porter	530-225-2562
Calaveras	Victor Coelho	559-244-7718	Carla Barnes	559-244-7716
Colusa	Brandy Daniel	530-895-4300	Anita Alexander	707-441-5892
Contra Costa	Jeanette Miller	925-602-1588	Paak-Yin Tam	415-920-2423
Del Norte	Anita Alexander	707-441-5892	Kathy Porter	530-225-2562
El Dorado	David Lyons	916-227-2015	Quentin Turner	916-774-4384
Fresno	Carla Barnes	559-244-7716	Victor Coelho	559-244-7718
Glenn	Brandy Daniel	530-895-4300	Kathy Porter	530-225-2562
Humboldt	Anita Alexander	707-441-5892	Kathy Porter	530-225-2562
Imperial	Cheryl Mason	619-689-6544	Ann Marshall	714-687-4816
Inyo	Sarah Parker	805-395-2543	Dee Johnson	805-568-1358
Kern	Sarah Parker	805-395-2543	Dee Johnson	805-568-1358
Kings	Victor Coelho	559-244-7718	Carla Barnes	559-244-7716
Lake	Anita Alexander	707-441-5892	Brandy Daniel	530-895-4300

These assignments change periodically. For updates call 916-262-2166 or check the Internet <http://www.calmis.ca.gov>

## Area Consultants

County Name	Single Point of Contact	Public Telephone No.	Alternate Contact	Public Telephone No.
Lassen	Brandy Daniel	530-895-4300	Kathy Porter	530-225-2562
Los Angeles	(Any L.A. Analyst)			
Central City	Bill Freed	213-744-2570	Rosanna Lo	213-744-2569
San Fernando Valley	Margaret Platt	818-898-4184	Linda Reed	626-350-6530
San Gabriel Valley	Linda Reed	626-350-6530	Margaret Platt	818-898-4184
South Bay	Rosanna Lo	213-744-2569	Bill Freed	213-744-2570
Madera	Carla Barnes	559-244-7716	Victor Coelho	559-244-7718
Marin	Cathe Rutherford	707-863-9753	Paak-Yin Tam	415-920-2423
Mariposa	Carla Barnes	559-244-7716	Victor Coelho	559-244-7718
Mendocino	Anita Alexander	707-441-5892	Brandy Daniel	530-895-4300
Merced	Carla Barnes	559-244-7716	Victor Coelho	559-244-7718
Modoc	Kathy Porter	530-225-2562	Brandy Daniel	530-895-4300
Mono	Sarah Parker	805-395-2543	Dee Johnson	805-568-1358
Monterey	Eric Alexander	831-464-4367	Mary Navarro	408-774-2369
Napa	Cathe Rutherford	707-863-9753	Eric Alexander	831-464-4367
Nevada	Quentin Turner	916-774-4384	David Lyons	916-227-2015
Orange	Ann Marshall	714-687-4816	Cheryl Mason	619-689-6544
Placer	David Lyons	916-227-2015	Quentin Turner	916-774-4384
Plumas	Brandy Daniel	530-895-4300	Kathy Porter	530-225-2562
Riverside	Thomas Flournoy	909-885-8614	Ann Marshall	714-687-4816
Sacramento	David Lyons	916-227-2015	Quentin Turner	916-774-4384
San Benito	Eric Alexander	831-464-4367	Mary Navarro	408-774-2369
San Bernardino	Thomas Flournoy	909-885-8614	Ann Marshall	714-687-4816

These assignments change periodically. For updates call 916-262-2166 or check the Internet <http://www.calmis.ca.gov>



# Standard Occupational Classification (SOC)

The Standard Occupational Classification (SOC) 1998 System was developed in response to a growing need for a universal occupational classification system—a system which would allow government agencies and private industry to produce comparable data. The SOC system was designed to cover all occupations in which work is performed for pay or profit and will be used by all federal agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data.

## *General Characteristics of the Revised SOC*

This system classifies workers at four levels of aggregation:

- major group
- minor group
- broad occupation
- detailed occupation

All workers are classified into one of over 820 occupations, according to their occupational definition. To facilitate classification, all occupations are clustered into one of 23 major groups. Within these major groups, there are 96 minor groups, and 449 broad occupations. Each broad occupation includes detailed occupation(s) requiring similar job duties, skills, education, or experience.

The following example shows the hierarchical structure of the 1998 SOC:

19-0000 Life, physical, and social science occupations (*major group*)

19-000 Life scientists ( *minor group*)

19-1020 Biological scientists (*broad occupation*)

19-1021 Biochemists and biophysicists (*detailed occupation*)

19-1022 Microbiologists (*detailed occupation*)

19-1023 Zoologists and wildlife biologists (*detailed occupation*)

19-1029 Biological scientists, all other (*detailed occupation*)

Data collected by the 2000 Census of Population will be coded to the 1998 SOC; the Department of Labor's Occupational Information Network (O\*NET), adheres to the 1998 SOC. In fact, all federal government agencies that collect occupational data are expected to adopt the 1998 SOC over the next few years.

Additional information, updated revision plans, and information on the implementation of the 1998 SOC are available at the Bureau of Labor Statistics (BLS) Internet site:

**<http://stats.bls.gov/soc>**

# Job Services for Employers and Job Seekers

The Employment Development Department (EDD) is the largest source of personnel recruitment in California. There is no fee to employers or job seekers. Employers may wish to place a job order with EDD or ask about other available services. Job seekers may wish to complete an application to be matched against employer job orders or to request other assistance in finding a job or training.

The **EDD Job Service** is the public employment service for the State of California. From locations in over 200 communities, the EDD Job Service program serves the State's 900,000 employers and the one million or more job seekers who use the services each year.

The EDD Job Service is authorized by the federal Wagner-Peyser Act, as amended by the Workforce Investment Act of 1998. The EDD plans and delivers the services in California in partnership with other employment and training organizations in the One-Stop Career Centers created by the Workforce Investment Act of 1998. The EDD's Job Service offers a variety of services that bring employers with job openings and qualified job seekers together.

**CalJOBS** – California's Internet system for linking employer job listings and job seeker resumes. CalJOBS is available at EDD Job Service locations, One-Stop Career Centers, and anywhere there is Internet access.

Special features of CalJOBS include:

- No fees
- Wide variety of job listings and job seekers
- Easy access:

<http://www.caljobs.ca.gov>

**Employer Advisory Councils** work closely with Job Service to sponsor employer seminars, job fairs and other events which provide information and guidance for job seekers and local business.

## Additional Services to Job Seekers

- Job search workshops
- Referral to partner agencies that provide other employment related services, including training.

## Additional Services to Employers

- Reemployment services for dislocated workers.
- Current labor market information.
- Focused recruitment campaigns.
- Locally coordinated workforce preparation services.

If you are interested in any of the above services, or would like information about the location of the Job Service office nearest you, contact the call center listed below.

Bay Area	415-749-7503
Los Angeles	213-833-7900
Orange	714-518-2315
Riverside	909-955-2200
Sacramento	916-227-0301
San Diego	619-266-4200

## Area Consultants

<b>County Name</b>	<b>Single Point of Contact</b>	<b>Public Telephone No.</b>	<b>Alternate Contact</b>	<b>Public Telephone No.</b>
San Diego	Cheryl Mason	619-689-6544	Ann Marshall	714-687-4816
San Francisco	Paak-Yin Tam	415-920-2423	Ruth Kavanagh	650-737-2664
San Joaquin	Ismael Tapia	209-941-6551	Quentin Turner	916-774-4384
San Luis Obispo	Dee Johnson	805-568-1358	Sarah Parker	805-395-2543
San Mateo	Ruth Kavanagh	650-578-2664	Paak-Yin Tam	415-920-2423
Santa Barbara	Dee Johnson	805-568-1358	Sarah Parker	805-395-2543
Santa Clara	Mary Navarro	408-774-2369	Ruth Kavanagh	650-737-2664
Santa Cruz	Eric Alexander	831-464-4367	Mary Navarro	408-774-2369
Shasta	Kathy Porter	530-225-2562	Brandy Daniel	530-895-4300
Sierra	Quentin Turner	916-774-4384	David Lyons	916-227-2015
Siskiyou	Kathy Porter	530-225-2562	Anita Alexander	707-441-5892
Solano	Cathe Rutherford	707-863-9753	Eric Alexander	831-464-4367
Sonoma	Cathe Rutherford	707-863-9753	Eric Alexander	831-464-4367
Stanislaus	Victor Coelho	559-244-7718	Carla Barnes	559-244-7716
Sutter	Quentin Turner	916-774-4384	David Lyons	916-227-2015
Tehama	Kathy Porter	530-225-2562	Brandy Daniel	530-895-4300
Trinity	Kathy Porter	530-225-2562	Anita Alexander	707-441-5892
Tulare	Victor Coelho	559-244-7718	Carla Barnes	559-244-7716
Tuolumne	Victor Coelho	559-244-7718	Carla Barnes	559-244-7716
Ventura	Dee Johnson	805-568-1358	Sarah Parker	805-395-2543
Yolo	David Lyons	916-227-2015	Quentin Turner	916-774-4384
Yuba	Quentin Turner	916-774-4384	David Lyons	916-227-2015

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## LABOR MARKET INFORMATION PRODUCT LIST

Item Description	Item Cost*	Sub- scription Cost (yearly)
<b>California Career Notes Set - Careers with a Future.....</b>	\$12.50	
The California Career Notes provide "at a glance" information about occupations suited for entry level job seekers - jobs with a large number of openings and which can provide career growth potential. These easily readable single sheet Career Notes target entry-level workers, including welfare-to-work clients. The set contains 50 occupation.		
<b>California (OES) Dictionary of Occupations.....</b>	\$15.00	
The dictionary contains a list of occupational codes and titles used in the Occupational Employment Statistics survey.		
<b>California Labor Market Bulletin.....</b>	NA	\$15.00
Information on employment and unemployment, recent industry trends for California, and current labor force data for all counties.		
<b>California Labor Market Bulletin-Statistical Supplement.....</b>	NA	\$30.00
A detailed breakout of employment by industry for the State and 17 largest areas. It also contains average weekly earnings, average hourly earnings and average weekly hours for production workers in manufacturing.		
<b>California License Handbook 1997.....</b>	\$15.00	
A list of occupations licensed by the State of California along with license fees, licensing requirements, and the name and address of the licensing authority.		
<b>California Occupational Guides Set.....</b>	\$45.00	
Contains 350 individual occupations or groups of related occupations with statewide information about job duties, working conditions, employment outlook, wages, benefits, entrance requirements, and training.		
<b>California Occupational Guide Profiles (IBM).....</b>	\$25.00	
<b>California Occupational Guide Profiles (MAC).....</b>	\$25.00	
A diskette containing summaries of approximately 300 occupations.		
<b>California Unemployment Insurance Reporting Units By Size, Industry and County (Report 524).....</b>	\$13.00	
Presents the characteristics of reporting units by their size of employment. The report includes this data at the statewide, county and MSA level.		
<b>Emerging Occupations in California-A Sampler.....</b>	\$9.00	
<b>Emerging Occupations in California-Environmental Hazardous Waste Occupations.....</b>	\$9.00	
<b>Emerging Occupations in California-Robotics and Related Automated Systems.....</b>	\$9.00	
<b>In Search of Skill Standards for 2000 and Beyond.....</b>	\$10.00	
A new report about current skill standards research resulting from the establishment of the Secretary's Commission of Achieving Necessary Skills in 1990, U.S. Department of Labor.		
<b>Interim Employment Series.....</b>	NA	\$20.00
Provides monthly industry employment estimates from January 1997 through the current month.		
<b>Labor Market Conditions in California.....</b>		\$30.00
<b>Labor Market Conditions in California.....</b>	\$6.00	
The Current Population Survey details, the wage and salary employment by industry series (both seasonally adjusted and unadjusted), Enhanced National Data System and Unemployment Insurance data.		
<b>Monthly Labor Force Data for Counties (Report 400C).....</b>	NA	\$12.00
Statistics on civilian labor force, employment, and unemployment for MSA's and counties in California.		

# California's Labor Market and Occupational Information is only a click away ...

Use your computer to view and/or download important economic data directly from us —  
**24 hours a day, seven days a week!**

<http://www.calmis.ca.gov>

## Data available on-line:

*Agriculture* Statewide and county employment and earnings data for selected crops and industries.

*Demographics* Statewide and county census data, population tables, income statistics, and data for nondiscrimination programs.

*Industry* Current and historical employment data, projections of employment, hours and earnings, and size of firm data.

*Labor Force* Monthly, historical, and annual average labor force data by county, MSA, and statewide; labor market conditions in California, and employment characteristics.

*Resources* Contact lists for area consultants, local partners for the California Cooperative Occupational Information System (CCOIS), publications available, and resources for additional data.

*Occupations* Projections of employment by occupation, the California License Handbook, the California Occupational Guides, the Occupational Guide Wage Supplement and the Occupational Outlook Reports.

## Visit our interactive on-line sites:

*Labor Market Information for Economic Development (LMI4ED)* Provides industry trends and occupational information in an interactive application. Users can search for data by county and industry or occupation, select individual items for display, and produce customized tables. LMI4ED is available at:

<http://www.lmi4ed.ca.gov>

*California Career & Training Information System (CaCTIS)* Provides job seekers and career development professionals easy access to occupational wages and outlook, training information and job openings. CaCTIS is available at:

<http://www.cactis.ca.gov>

**Publications and Information:** Publications Desk (916) 262-2162

**Internet Assistance:** (916) 262-2213 or (916) 262-2340

# Related Websites

## Local Government

CA local government agencies

[http://www.ceres.ca.gov/geo\\_area/counties](http://www.ceres.ca.gov/geo_area/counties)

Sacramento Area Commerce and Trade Organization

<http://www.sactoedc.org>

## State Government

California's Home Page — Links to all state government agencies

<http://www.ca.gov>

EDD Home Page

<http://www.edd.ca.gov>

California Career Resource Network (CalCRN) — CalCRN is an interagency committee created to promote the development and use of occupational and career information.

<http://www.soicc.ca.gov>

California Department of Finance (DOF) — DOF provides demographic information, population estimates, and cost of living information.

<http://www.dof.ca.gov>

California One-Stop Career Centers

<http://www.sjtcc.ca.gov/sjtccweb/one-stop>

California School To Career (STC) — School-to-Career is a method of teaching that prepares students for college and the job market by integrating academic studies with real world applications and work based learning experiences.

<http://www.stc.ca.gov>

California's Job Bank

<http://www.caljobs.ca.gov>

Department Of Industrial Relations (DIR) — Worker's Compensation, labor law, and statistics.

<http://www.dir.ca.gov>

## Federal Government

Federal Department of Labor, Bureau of Labor Statistics

<http://stats.bls.gov>

Bureau of the Census

<http://www.census.gov>

Library of Congress

<http://lcweb.loc.gov>

America's Job Bank

<http://www.ajb.dni.us>



Item Description	Item Cost*	Sub- scription Cost (yearly) per area
<b>Monthly Labor Force Data for Sub-County Areas</b> ..... This report contains labor force data for individual counties and selected cities and other sub-areas within the counties. There are five area reports for California: Central Coast (LAU-29), Los Angeles/Ventura (LAU-30), Northern (LAU-31), Southern (LAU-32) and Valley (LAU-33).		\$15.00
<b>Monthly Labor Force Data for Service Delivery Areas (Report 400S)</b> ..... Statistics on civilian labor force, employment, and unemployment for service delivery areas in California.	NA	\$12.00
<b>Nondiscrimination Reports by MSA, PMSA, CMSA</b>		
Fresno - Madera (MSA).....	\$8.00	
Los Angeles - Riverside - Orange (CMSA).....	\$8.00	
Riverside-San Bernardino (PMSA).....	\$8.00	
Sacramento - El Dorado - Placer (PMSA).....	\$8.00	
San Francisco - Oakland - San Jose (CMSA).....	\$8.00	
Marin - San Francisco - San Mateo (PMSA).....	\$8.00	
Napa - Solano (PMSA).....	\$8.00	
Sutter - Yuba (MSA).....	\$8.00	
Alameda - Contra Costa (PMSA).....	\$8.00	
<b>Projections and Planning Information Report (PPI)-California</b> ..... Provides civilian labor force data, wage and salary employment, industry/occupational projections, social/economic data and other resources.	\$35.00	
Labor Force.....	\$12.00	
Wage and Salary Employment.....	\$13.00	
Industry and Occupational Projections.....	\$15.00	
Social/Economic Data and Nondiscrimination Information - 1990 Census.....	\$10.00	
Other LMI.....	Incl w/E	
<b>Projections and Planning Information (PPI) Report-By County (see attachment 2 for individual item numbers)</b> ..... Labor Force..... Wage and Salary Employment..... Industry and Occupational Projections..... Wages..... Social/Economic Data and Nondiscrimination Information - 1990 Census.....	\$35.00 \$8.00 \$8.00 \$15.00 \$9.00 \$10.00	
<b>Small Business in California: A Resource Guide for Starting and Improving Your Small Business</b> ..... This resource guide is for small business owners and those who dream of someday owning a small business. It is also geared as a reference tool for persons who assist others in small business development.	\$10.00	
<b>Small Firm Employment Growth Report 1991-1995</b> ..... The report was developed to answer the question, "What fraction of employment growth is generated by small firms - those with fewer than 10 employees. It analyzes this question by examining employment growth for both small and large firms from 1991 to 1995.	\$20.00	
<b>California Cooperative Occupational Information System (CCOIS) Products</b>		
<b>California Occupational Guide Wage Supplement 1998</b> ..... County wage data covering years 1995-1997.	\$21.00	
<b>Enhanced State Training Inventory (CD ROM)</b> ..... (IBM and MAC versions available upon request, call (916) 262-2162 for price) Provides information to assist state and local employment and training personnel and local employers to identify available training resources. The electronic database contains information on local schools and colleges, including name, address, phone numbers, fax numbers, and the educational and training programs offered.	\$40.00	
<b>CCOIS Occupational Outlook Reports (see attachment 1 for individual item numbers)</b> .....	\$20.00	
<b>CCOIS Occupational Outlook Reports on diskette (IBM, MAC - see attachment 1 for individual item numbers)</b> .....	\$15.00	

Local occupational information such as wages, experience, training, labor supply and demand. And expected growth in selected occupations.

Call (916) 262-2162 for county availability prior to ordering.

Item Description	Item Cost*	Subscription Cost (yearly)
<b>Occupational Summaries For California 1995-1997</b> .....	\$50.00	
Statewide occupational data compiled from over 33,000 California employers, representing approximately 615,000 jobs statewide. Includes job titles, descriptions, wages, benefits, education, training experience, labor supply and demand, etc.		
<b>Occupational Summaries for EDD's Labor Market Information Division - 5 Regions</b> .....	\$150.00	
Local occupational data compiled for local regions and includes job titles, descriptions, wages, benefits, education, training, experience, supply/demand, etc.		
<b>Northern Region - 1995-1997</b> .....	\$35.00	
Alpine, Amador, Butte, Colusa, Del Norte, El Dorado, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, Yolo and Yuba Counties		
<b>Central Coast Region - 1995-1997</b> .....	\$35.00	
Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano and Sonoma Counties		
<b>Central Valley Region - 1995-1997</b> .....	\$35.00	
Calaveras, Fresno, Inyo, Kern, Kings, Madera, Mariposa, Merced, Mono, San Luis Obispo, Santa Barbara, Stanislaus, Tulare, Tuolumne and Ventura Counties		
<b>Los Angeles Region - 1995-1997</b> .....	\$35.00	
Los Angeles County		
<b>Southern Region - 1995-1997</b> .....	\$35.00	
Imperial, Orange, Riverside, San Bernardino and San Diego Counties		
<b>Occupational Summaries for School-to-Career - 12 Regions</b> .....	\$350.00	
Local occupational information compiled by School-to-Career Regions. Includes summaries from occupations found in the local area, e.g., job titles, descriptions, wages, benefits, education, training, experience, labor supply and demand, etc.		
<b>Region 1 - 1995-1997</b> .....	\$35.00	
Del Norte, Humboldt, Lake, Mendocino and Sonoma Counties		
<b>Region 2 - 1995-1997</b> .....	\$35.00	
Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama and Trinity Counties		
<b>Region 3 - 1995-1997</b> .....	\$35.00	
Alpine, Colusa, El Dorado, Nevada, Placer, Sacramento, Sierra, Sutter, Yolo and Yuba Counties		
<b>Region 4 - 1995-1997</b> .....	\$35.00	
Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo and Solano Counties		
<b>Region 5 - 1995-1997</b> .....	\$35.00	
Monterey, San Benito, Santa Clara and Santa Cruz Counties		
<b>Region 6 - 1995-1997</b> .....	\$35.00	
Amador, Calaveras, San Joaquin, Stanislaus and Tuolumne Counties		
<b>Region 7 - 1995-1997</b> .....	\$35.00	
Fresno, Kings, Madera, Mariposa, Merced and Tulare Counties		
<b>Region 8A - 1995-1997</b> .....	\$35.00	
Los Angeles County		
<b>Region 8B - 1995-1997</b> .....	\$35.00	
Kern, San Luis Obispo, Santa Barbara and Ventura Counties		
<b>Region 9A - 1995-1997</b> .....	\$35.00	
Imperial and San Diego Counties		
<b>Region 9B - 1995-1997</b> .....	\$35.00	
Orange County		
<b>Region 10 - 1995-1997</b> .....	\$35.00	
Inyo, Mono, Riverside and San Bernardino Counties		

☐ - Information accessible on the Internet web site <http://www.calmis.ca.gov>

NA - Not Available—monthly subscription only (free sample upon request)

NC - No Charge

\* - Prices include sales tax and shipping/handling



# DICTIONARY OF OCCUPATIONAL TITLES (DOT)

The DOT is a comprehensive and standardized occupational coding system. The fourth edition, revised in 1991, is 1,400 pages in length compiled into two volumes. The occupational definitions are arranged by nine-digit DOT codes in an Occupational Group Arrangement section. The definitions include the major task elements of the job, task variables, alternate job titles, industry designation, and related occupations.

The DOT was originally developed for use by the U. S. Employment Service in matching qualified job applicants with suitable jobs. Since then, its use has expanded to various users for employment counseling, occupational and career guidance, and labor market information services.

## **Suggestions for Users**

The DOT contains three complete indices of the coded titles. Locating a particular occupation can be relatively simple if the user knows the occupational title, the DOT code, or the industry in which the job occurs. The DOT is a complex volume with many uses. To become familiar with its contents, the user should consult the Introduction and the Appendix which go into great detail on "how to" use the DOT.

Job definitions in the DOT are composed of many jobs and cannot be expected to agree exactly in content with an individual position in a specific firm. In addition, employers sometimes combine jobs based on plant size or employee skills; thus, a worker's job may be covered by two or more DOT definitions.

The DOT may be purchased from the Superintendent of Documents, the Bureau of Labor Statistics, or the U. S. Government Bookstore in Los Angeles or San Francisco.

## **Conversion to O\*NET**

Changes in occupational content and job characteristics due to technological advancements continue to occur at a rapid pace. This rapid change to occupations coupled with user demand for the most current information possible has resulted in the need for a system that more closely reflects the changing world of work. O\*NET, the Occupational Information Network, captures those changes in terms that accurately reflect today's workplace and workforce. O\*NET 98 is available to the public at this time and the Department of Labor (DOL) anticipates that the next version of O\*NET will replace the DOT.

# O\*NET THE OCCUPATIONAL INFORMATION NETWORK

In December, 1998, the Employment and Training Administration (ETA), US Department of Labor (DOL), released the first public version of O\*NET, known as O\*NET 98. This is a transitional product, to prepare for O\*NET in the 21st century. The ETA expects the next version of O\*NET will formally replace the DOT.

The DOT first defined the workplace over sixty years ago, and significant changes have taken place since that tool was developed. O\*NET captures those changes and uses terms that accurately reflect today's workplace and workforce. A relational database houses the comprehensive information in O\*NET – information about job requirements and worker competencies. O\*NET supplies users with current information vital to the training, education, counseling and employment of workers.

The gathering and classification of information was done with many different users in mind, including human resource personnel, industry analysts, students, rehabilitation counselors, workforce researchers, managers, displaced workers and more. Therefore, O\*NET features are many, including:

- *Data describing over 1,100 occupations that connect to the Occupational Employment Survey.*
- *The capability to locate occupations through skill requirements or key words.*
- *Electronic links that match O\*NET occupational titles to eight other classification systems.*
- *Labor market information from BLS (Bureau of Labor Statistics) on employment levels, occupational outlook and wages.*

- *"Occupational Profiles" giving a short overview of the most important data descriptions for each occupation.*

The information currently available through O\*NET was developed by job analysts; however, workers and employers themselves, describing what they do and the necessary skills, will contribute to future data.

The U.S. Department of Labor's Employment and Training Administration looked to both public and private entities in the development of O\*NET. State-based Occupational Analysis Field Centers and Assessment Research and Development Program Centers provided regional support. Private sector firms are also assisting with the implementation of the project.

If it is to be current, comprehensive and inclusive, the O\*NET System will require a continuous process of database building. DOL welcomes the participation of employers or representatives of organizations that can contribute occupational information. The massive and growing O\*NET data collection and database will be maintained by the newly established National O\*NET Consortium.

For further information contact O\*NET:

O\*NET Project  
DOL Office of Policy and Research/ETA/O\*NET  
200 Constitution Ave., NW, MS N5637  
Washington, DC 20210

Phone (202) 219-7161  
FAX (202) 219-9186  
E-mail O\*NET@doleta.gov  
Web site <http://www.doleta.gov/programs/onet/>



# STANDARD OCCUPATIONAL CLASSIFICATION (SOC)

The *Standard Occupational Classification* (SOC) system will be used by U.S. government agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data.

- The SOC will consist of 810 unique occupations, each with its own SOC code number, title, and definition.
- The 810 occupations are combined with other occupations requiring similar skills or background
- The classification system presented here is in the final stages of a revision process.
- Government agencies that collect or publish data by occupation will begin using the SOC system over the next few years.

## General Characteristics of the Revised SOC

In the proposed revision of the SOC, there are four levels of aggregation:

- 1) *major group*;
- 2) *minor group*;
- 3) *broad occupation*;
- 4) *detailed occupation*.

All occupations are clustered into 23 *major groups*, such as Management or Healthcare Practitioner and Technical occupations. These Major groups are broken down into occupationally-specific *minor groups*, such as Operations Specialties Managers in the Management Occupations

major group or Health Diagnosing and Treating Practitioners in the Healthcare Practitioner and Technical Occupations major group. Minor groups, in turn, are divided into *broad occupations*, such as Human Resources Managers or Therapists, which are further divided into *detailed occupations*, such as Compensation and Benefits Managers, or Physical Therapists.

All Federal agencies that collect occupational data will use the new system; similarly, all State and local government agencies are strongly encouraged to use this national system to promote a common language for categorizing occupations in the world of work. The new SOC system will replace the *Occupational Employment Statistics* (OES) occupational classification system currently used by the Bureau of Labor Statistics (BLS) for gathering occupational information. It will also replace the Bureau of the Census' 1990 occupational classification system and will be used for the 2000 Census. In addition, the new SOC will serve as the framework for information being gathered through the Department of Labor's *Occupational Information Network* (O\*NET), which is in the process of replacing the *Dictionary of Occupational Titles* (DOT).

Additional information and updated revision plans are available at the BLS Internet site:

**<http://stats.bls.gov/soc>**

Labor Market Information Division, Employment Development Department, California, will begin using the SOC in the 1999/2000 OES survey.

# JOB SERVICES FOR EMPLOYERS AND JOB SEEKERS

The Employment Development Department (EDD) is the largest source of personnel recruitment in California. There is no fee to employers or job seekers. Employers may wish to place a job order with EDD or ask about other available services. Job seekers may wish to complete an application to be matched against employer job orders or to request other assistance in finding a job or training.

California's **Job Service** is one of the world's largest public employment service operations. With over 130 service points throughout the state, this Employment Development Department (EDD) program serves the state's 850,000 and about one million job seekers who register for services each year.

The EDD's Job Service offers a variety of services that bring employers with job openings together with qualified job seekers.

**CalJOBS** is an Internet-based job opening and resume listing system that increases the public's access to employment services. Special features of **CalJOBS** include:

- No fees
- Wide variety of job listings and job seekers
- Easy access:  
<http://www.caljobs.ca.gov>

**Employer Advisory Councils** work closely with Job Service to sponsor employer seminars, job fairs and other events which provide information and guidance for job seekers and local business.

**Agricultural Services.** California's multi-billion-dollar agriculture industry and farmworkers have access to the automated job listing service. This is a vital link between growers and permanent/seasonal workers.

## Services to Job Seekers

- Job search workshops
- Referral to training or educational facilities and social service agencies
- Special assistance to unemployment insurance clients, veterans, persons with disabilities, youth, welfare recipients, and migrant and seasonal farmworkers.

## Services to Employers

- Re-employment services for dislocated workers.
- Current labor market information.
- Focused recruitment campaigns.

If you are interested in any of the above services, or would like information about the location of the Job Service office nearest you, contact the call center listed below.

Bay Area	510-374-7500
Los Angeles	213-993-4600
Orange	714-978-7421
Riverside	909-782-3211
Sacramento	916-574-2100
San Diego	619-336-5549



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Use your computer to view and/or download important economic data directly from us -- **24 hours a day, seven days a week!**

Via the Internet: **<http://www.calmis.ca.gov>**

## **Data Available On-line:**

Agriculture: Statewide and county employment and earnings data for selected crops and industries.

Demographics: Statewide and county census data, population tables, income statistics, and data for non-discrimination programs.

Industry: Current and historical employment data, projections of employment, hours and earnings, and size of firm data.

Labor Force: Monthly, historical, and annual average labor force data by county, MSA, and statewide; labor market conditions in California, and employment characteristics.

Resources: Contact lists for area consultants, local partners for the California Cooperative Occupational Information System (CCOIS), publications available, and resources for additional data.

Occupations: Projections of employment by occupation, the California License Handbook, the California Occupational Guides, the Occupational Guide Wage Supplement and the Occupational Outlook Reports.

**Publications and Information: Publications Desk (916) 262-2162**

**Internet Assistance: (916) 262-2213 or (916) 262-2340**

## **Related Websites**

### Local Government

CA local government agencies

**[http://www.ceres.ca.gov/geo\\_area/counties](http://www.ceres.ca.gov/geo_area/counties)**

Sacramento Area Commerce and Trade Organization

**<http://www.sactoedc.org>**

### State Government

California's Home Page – Links to all state government agencies

**<http://www.ca.gov>**

EDD Home Page

**<http://www.edd.ca.gov>**

California Occupational Information Coordinating Committee (COICC)

COICC is an interagency committee created to promote the development and use of occupational and career information.

**<http://www.soicc.ca.gov>**

California Dept. of Finance (DOF)

DOF provides demographic information, population estimates, and cost of living information.

**<http://www.dof.ca.gov>**

California One-Stop Career Centers

**<http://www.sjtcc.ca.gov/sjtccweb/one-stop>**

California's Job Bank

**<http://www.caljobs.ca.gov>**

Dept. Of Industrial Relations (DIR)

Worker's Comp., labor law, and statistics.

**<http://www.dir.ca.gov>**

### Federal Government

Federal Department of Labor, Bureau of Labor Statistics

**<http://stats.bls.gov>**

Bureau of the Census

**<http://www.census.gov>**

Library of Congress

**<http://lcweb.loc.gov>**

America's Job Bank

**<http://www.ajb.dni.us>**



# *Projections & Planning Information*

## **Module B:**

# **Labor Force**



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## Module B: LABOR FORCE

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1987–2001 Monthly Civilian Labor Force Data .....	B-3





# Labor Force

Labor Force statistics are derived from the monthly Current Population Survey (CPS) of households conducted by the Bureau of Census for the Bureau of Labor Statistics (BLS). This monthly survey collects demographic data including employment and unemployment status for all states. The CPS sample consists of over 60,000 households nationwide with over 4,600 households in California. These data represent counts of individuals by place of residence rather than a count of jobs.

County-level labor force data, with the exception of Los Angeles County, are derived using a variety of information including CPS information, Wage and Salary Employment, and unemployment claims data for local areas.

*Civilian Labor Force* includes all non-institutional civilians, 16 years of age and older, who are working or looking for work: the sum of employed and unemployed.

*Civilian Employment* includes all individuals who are working, either for a wage or salary, self-employed, working at least one hour for pay or profit each week, or working at least 15 unpaid hours in a family business. Those who are on vacation, other kinds of leave, or involved in a labor dispute, are also counted as employed (whether or not they were paid for the time-off).

*Civilian Unemployment* includes those individuals who are not working but are able, available and looking for work.

*Unemployment Rate* is the number of unemployed individuals expressed as a percentage of the civilian labor force.

## Suggestions for Users

Regular users of labor force data include grant writers, economic development professionals, government agencies and local social service agencies. This section provides suggestions for the first time user, the job hunter and the occasional user.

- County labor force data are not seasonally adjusted. It is important to request "not seasonally adjusted" labor force data for the state and the nation to make a valid comparison.
- The employment and unemployment figures tend to vary from month to month for many reasons. As a result, the annual average figures, over time, tend to be a better estimate of the labor force trends within the area.
- The unemployment rate may not reflect the economic conditions in all areas of the county. The labor market can vary greatly in different industries, in different occupations, and in different parts of the county.
- Month-to-month labor force data are a useful indicator of the seasonal changes in the area, such as outdoor activities, (i.e. construction), holiday hiring, school schedules, and agricultural patterns.
- California labor force data for years prior to 1990 are not directly comparable with data for 1990 and later years due to the introduction of the 1990 Census population controls.

You may want to consult the industry and occupational modules of this report for more information on economic conditions in the county, or speak with the Labor Market Information Division's area consultants who are located in the community and are knowledgeable about the economic activities in their counties.

**Additional Sources of Information:**

- Bureau of Labor Statistics,  
Occupational Outlook Handbook
- California Association for Local  
Economic Development (CALED)
- Local Chambers of Commerce
- Local Economic Development  
Organizations
- Newspapers

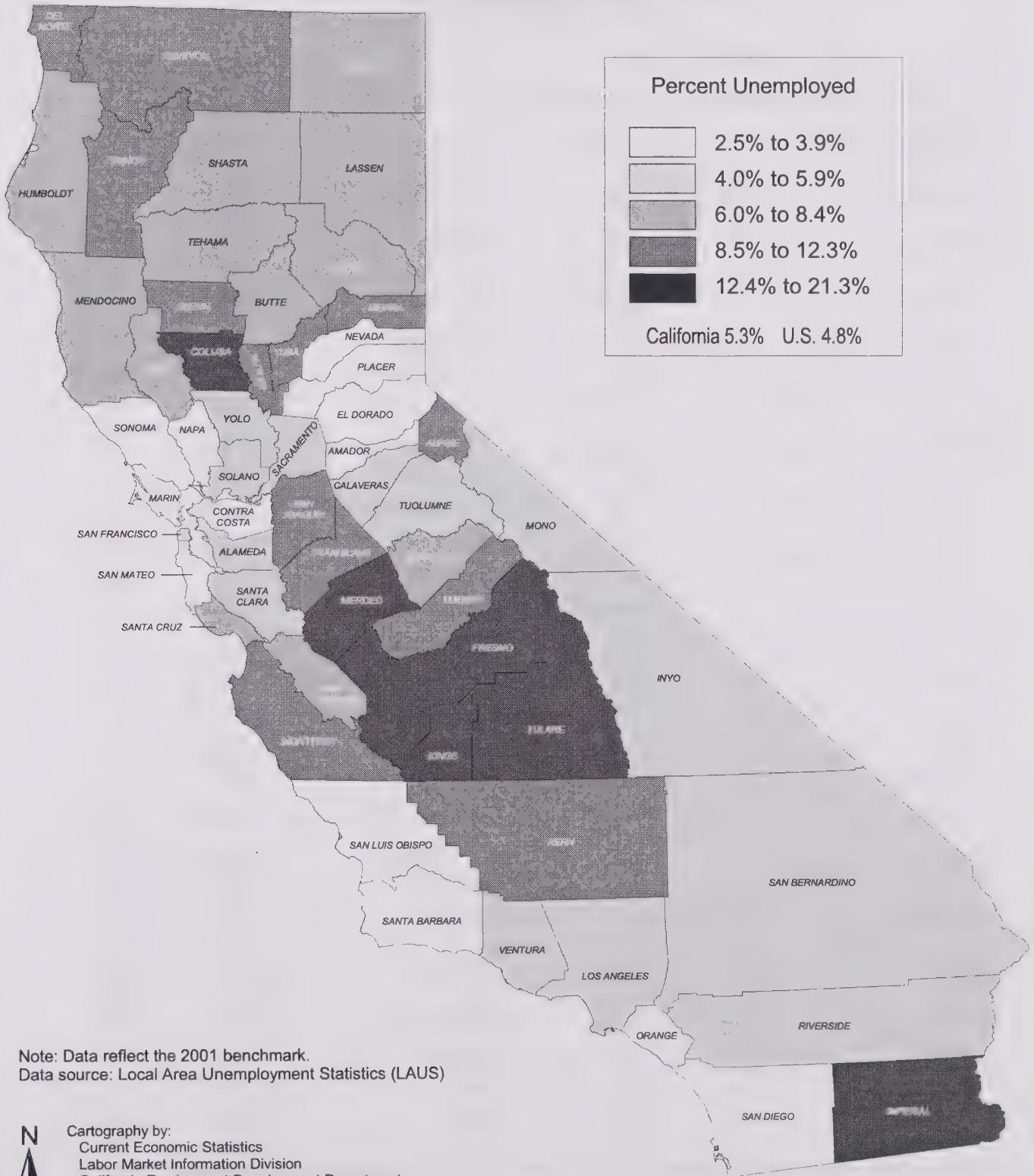
Electronic access to current data is available through the Employment Development Department's Internet address at:

**<http://www.calmis.ca.gov>**

For additional information or technical assistance with the Labor Market Information Division's Internet website, please call (916) 262-2162 and select option #2. To obtain contact information for local labor market consultants or to obtain current monthly data, customers may also call (916) 262-2162 or FAX (916) 262-2443.

# County Unemployment Rates

## 2001 Annual Averages





**United States, California and Counties**  
**Unemployment Rates**  
**2000, 2001 Annual Averages\***

	2000	2001		2000	2001
<b>U.S.</b>	4.0	4.8			
<b>CALIFORNIA</b>	4.9	5.3			
Alameda	3.0	4.5	Orange	2.5	3.0
Alpine	8.2	9.0	Placer	3.2	3.6
Amador	8.4	3.9	Plumas	8.3	8.4
Butte	4.4	7.0	Riverside	5.5	5.2
Calaveras	7.0	5.9	Sacramento	4.2	4.2
Colusa	6.7	17.6	San Benito	7.8	8.2
Contra Costa	17.5	3.3	San Bernardino	4.8	4.8
Del Norte	2.7	8.7	San Diego	3.0	3.2
El Dorado	3.9	3.8	San Francisco	2.8	5.2
Fresno	14.3	13.7	San Joaquin	8.8	8.7
Glenn	11.9	11.2	San Luis Obispo	3.0	2.8
Humboldt	6.3	6.1	San Mateo	1.6	2.8
Imperial	26.3	21.3	Santa Barbara	3.7	3.5
Inyo	5.6	4.9	Santa Clara	2.0	4.5
Kern	11.3	10.5	Santa Cruz	5.6	6.1
Kings	14.0	13.8	Shasta	6.9	6.7
Lake	8.0	7.3	Sierra	7.7	9.7
Lassen	6.9	6.8	Siskiyou	9.5	9.4
Los Angeles	5.4	5.7	Solano	4.2	4.1
Madera	11.8	12.1	Sonoma	2.6	2.9
Marin	1.7	2.5	Stanislaus	10.4	10.2
Mariposa	7.8	6.3	Sutter	13.0	12.3
Mendocino	6.6	6.6	Tehama	6.9	6.4
Merced	14.4	14.0	Trinity	12.4	10.9
Modoc	8.3	7.0	Tulare	15.4	15.4
Mono	5.6	5.2	Tuolumne	6.0	5.5
Monterey	9.7	9.3	Ventura	4.5	4.5
Napa	3.2	3.3	Yolo	4.3	4.2
Nevada	3.6	3.7	Yuba	11.8	11.7

\*March 2001 Benchmark figures.



**Sonoma County**  
**(Santa Rosa Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**  
**Annual Averages 1987–2001**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>2001</b>	262,600	254,900	7,700	2.9%
<b>2000</b>	259,200	252,300	6,800	2.6%
<b>1999</b>	250,800	244,100	6,700	2.7%
<b>1998</b>	247,100	238,900	8,200	3.3%
<b>1997</b>	239,600	230,600	9,000	3.8%
<b>1996</b>	230,000	219,900	10,100	4.4%
<b>1995</b>	225,300	212,800	12,500	5.5%
<b>1994</b>	226,100	212,900	13,100	5.8%
<b>1993</b>	219,000	205,000	14,100	6.4%
<b>1992</b>	215,700	200,900	14,800	6.9%
<b>1991</b>	210,600	199,300	11,300	5.4%
<b>1990</b>	207,100	199,100	8,000	3.9%
<b>1989</b>	203,300	194,500	8,800	4.3%
<b>1988</b>	197,400	188,100	9,200	4.7%
<b>1987</b>	186,400	177,400	9,000	4.8%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

**Sonoma County**  
**(Santa Rosa Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

		<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>2001</b>	January	258,300	251,200	7,100	2.7%
	February	260,000	253,300	6,700	2.6%
	March	261,100	254,600	6,500	2.5%
	April	260,200	254,000	6,300	2.4%
	May	263,000	256,600	6,400	2.4%
	June	263,600	255,800	7,800	3.0%
	July	263,200	254,900	8,300	3.2%
	August	264,200	255,900	8,300	3.1%
	September	265,300	257,500	7,900	3.0%
	October	266,900	258,500	8,400	3.1%
	November	264,100	254,300	9,700	3.7%
	December	261,500	252,600	8,800	3.4%
	Annual Average	262,600	254,900	7,700	2.9%
<b>2000</b>	January	251,300	243,900	7,500	3.0%
	February	254,100	246,500	7,600	3.0%
	March	254,300	247,000	7,300	2.9%
	April	255,600	249,200	6,400	2.5%
	May	258,500	252,000	6,500	2.5%
	June	261,400	253,600	7,800	3.0%
	July	259,800	251,800	8,000	3.1%
	August	262,900	255,600	7,300	2.8%
	September	263,100	256,700	6,500	2.5%
	October	265,300	259,200	6,100	2.3%
	November	263,300	257,300	6,000	2.3%
	December	260,300	255,000	5,300	2.0%
	Annual Average	259,200	252,300	6,800	2.6%
<b>1999</b>	January	244,700	236,600	8,100	3.3%
	February	247,000	239,100	7,900	3.2%
	March	248,700	241,200	7,600	3.0%
	April	247,600	240,900	6,800	2.7%
	May	251,000	245,100	5,900	2.4%
	June	252,200	245,200	7,000	2.8%
	July	249,700	242,500	7,200	2.9%
	August	252,200	245,600	6,600	2.6%
	September	253,800	247,600	6,100	2.4%
	October	256,700	250,900	5,900	2.3%
	November	253,100	247,000	6,100	2.4%
	December	253,400	247,600	5,800	2.3%
	Annual Average	250,800	244,100	6,700	2.7%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

**Sonoma County**  
**(Santa Rosa Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>1998</b> January	241,300	230,800	10,500	4.4%
February	242,600	232,400	10,200	4.2%
March	244,600	235,900	8,700	3.6%
April	246,200	237,800	8,400	3.4%
May	248,100	240,300	7,800	3.1%
June	248,400	239,900	8,500	3.4%
July	248,100	239,500	8,600	3.5%
August	248,600	240,400	8,200	3.3%
September	250,400	242,800	7,600	3.0%
October	251,400	244,700	6,800	2.7%
November	247,900	241,300	6,600	2.7%
December	247,000	240,400	6,600	2.7%
Annual Average	247,100	238,900	8,200	3.3%
<b>1997</b> January	234,100	223,400	10,700	4.6%
February	234,800	224,500	10,300	4.4%
March	236,600	227,200	9,400	4.0%
April	236,900	227,900	9,000	3.8%
May	238,300	229,900	8,400	3.5%
June	238,400	229,300	9,100	3.8%
July	238,600	228,800	9,800	4.1%
August	242,400	233,100	9,300	3.8%
September	245,300	236,800	8,500	3.5%
October	245,400	237,400	8,100	3.3%
November	242,500	234,400	8,100	3.3%
December	242,000	234,200	7,800	3.2%
Annual Average	239,600	230,600	9,000	3.8%
<b>1996</b> January	224,600	212,500	12,100	5.4%
February	226,400	214,500	11,900	5.3%
March	227,200	215,900	11,300	5.0%
April	227,100	216,200	10,800	4.8%
May	227,600	217,600	10,000	4.4%
June	229,400	219,100	10,300	4.5%
July	227,700	217,100	10,600	4.6%
August	229,400	219,700	9,700	4.2%
September	234,600	225,600	9,000	3.8%
October	235,900	227,300	8,600	3.6%
November	235,100	226,500	8,600	3.6%
December	234,900	226,500	8,400	3.6%
Annual Average	230,000	219,900	10,100	4.4%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

**Sonoma County**  
**(Santa Rosa Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>1995</b> January	224,400	208,300	16,100	7.2%
February	224,100	210,000	14,100	6.3%
March	224,200	210,500	13,700	6.1%
April	222,200	209,000	13,200	5.9%
May	223,200	210,700	12,500	5.6%
June	224,600	211,600	13,000	5.8%
July	223,500	210,500	13,000	5.8%
August	224,400	212,500	11,900	5.3%
September	226,600	215,500	11,100	4.9%
October	231,200	220,500	10,700	4.6%
November	229,000	218,400	10,600	4.6%
December	226,200	216,400	9,800	4.3%
Annual Average	225,300	212,800	12,500	5.5%
<b>1994</b> January	221,800	207,000	14,800	6.7%
February	223,200	208,300	14,800	6.7%
March	223,900	210,300	13,700	6.1%
April	224,600	211,300	13,300	5.9%
May	225,200	212,000	13,100	5.8%
June	225,400	211,600	13,900	6.1%
July	224,400	210,300	14,100	6.3%
August	227,200	213,900	13,300	5.9%
September	227,800	215,800	12,000	5.3%
October	231,100	219,700	11,400	4.9%
November	229,800	218,100	11,700	5.1%
December	228,400	217,000	11,400	5.0%
Annual Average	226,100	212,900	13,100	5.8%
<b>1993</b> January	217,300	201,300	16,000	7.4%
February	217,900	201,700	16,200	7.4%
March	214,900	200,000	14,900	6.9%
April	214,300	201,800	12,600	5.9%
May	216,200	203,000	13,300	6.1%
June	216,500	202,200	14,400	6.6%
July	218,400	202,700	15,600	7.2%
August	217,000	203,200	13,900	6.4%
September	222,300	208,800	13,500	6.1%
October	225,900	211,900	14,000	6.2%
November	222,600	210,300	12,200	5.5%
December	224,600	212,500	12,200	5.4%
Annual Average	219,000	205,000	14,100	6.4%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.



**Sonoma County**  
**(Santa Rosa Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>1992</b> January	210,700	196,700	14,100	6.7%
February	212,500	197,200	15,300	7.2%
March	213,300	198,500	14,800	6.9%
April	211,200	196,300	14,900	7.1%
May	214,200	199,800	14,400	6.7%
June	218,300	202,600	15,800	7.2%
July	217,600	203,200	14,400	6.6%
August	218,200	202,700	15,500	7.1%
September	219,600	205,800	13,800	6.3%
October	216,900	202,600	14,300	6.6%
November	217,300	201,600	15,700	7.2%
December	218,900	204,000	14,900	6.8%
Annual Average	215,700	200,900	14,800	6.9%
<b>1991</b> January	208,300	196,500	11,800	5.7%
February	208,300	196,200	12,100	5.8%
March	206,200	193,200	13,000	6.3%
April	208,200	196,200	12,000	5.8%
May	206,000	194,600	11,400	5.6%
June	208,000	196,100	12,000	5.8%
July	207,800	195,900	11,900	5.7%
August	212,600	202,100	10,400	4.9%
September	214,700	204,500	10,200	4.8%
October	216,200	206,000	10,200	4.7%
November	214,600	204,700	9,900	4.6%
December	215,800	205,400	10,500	4.8%
Annual Average	210,600	199,300	11,300	5.4%
<b>1990</b> January	205,100	197,100	8,000	3.9%
February	203,600	195,800	7,700	3.8%
March	204,400	197,000	7,400	3.6%
April	205,800	198,200	7,600	3.7%
May	206,500	199,200	7,400	3.6%
June	208,900	200,900	8,100	3.9%
July	208,200	199,500	8,700	4.2%
August	209,000	201,000	8,000	3.8%
September	208,100	200,700	7,500	3.6%
October	210,500	202,800	7,700	3.7%
November	207,900	198,900	8,900	4.3%
December	207,100	198,200	8,900	4.3%
Annual Average	207,100	199,100	8,000	3.9%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

**Sonoma County**  
**(Santa Rosa Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>1989</b> January	198,200	187,900	10,300	5.2%
February	197,300	187,000	10,300	5.2%
March	195,900	187,300	8,600	4.4%
April	197,000	187,900	9,100	4.6%
May	201,600	192,600	9,000	4.5%
June	203,900	194,100	9,800	4.8%
July	207,200	197,000	10,200	4.9%
August	206,700	198,600	8,100	3.9%
September	211,300	202,900	8,400	4.0%
October	212,900	205,300	7,600	3.6%
November	204,700	197,300	7,400	3.6%
December	203,100	195,800	7,300	3.6%
Annual Average	203,300	194,500	8,800	4.3%
<b>1988</b> January	189,800	180,000	9,800	5.2%
February	188,900	179,400	9,500	5.0%
March	189,000	180,100	8,900	4.7%
April	197,300	188,300	9,000	4.5%
May	195,300	185,200	10,100	5.2%
June	199,000	189,300	9,700	4.9%
July	198,300	188,300	10,000	5.0%
August	203,000	193,500	9,500	4.7%
September	202,800	194,400	8,400	4.1%
October	200,700	192,600	8,100	4.0%
November	203,200	193,600	9,600	4.7%
December	201,200	192,900	8,300	4.1%
Annual Average	197,400	188,100	9,200	4.7%
<b>1987</b> January	179,600	168,400	11,200	6.2%
February	181,700	171,000	10,700	5.9%
March	182,800	172,800	10,000	5.5%
April	185,000	176,300	8,700	4.7%
May	186,600	178,300	8,300	4.4%
June	189,000	180,400	8,600	4.6%
July	189,000	179,800	9,200	4.9%
August	190,800	182,600	8,200	4.3%
September	190,600	182,400	8,200	4.3%
October	188,000	180,000	8,000	4.2%
November	187,800	179,200	8,600	4.6%
December	185,400	177,000	8,400	4.5%
Annual Average	186,400	177,400	9,000	4.8%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

# *Projections & Planning Information*

## **Module C:**

# **Wage & Salary Employment**





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## Module C: Wage and Salary

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# Wage and Salary Employment

Industry employment data reflect jobs by “place of work” and by broad industry categories. The data do not include the self-employed, unpaid family workers or private household employees. Jobs located in a county or Metropolitan Statistical Area (MSA) that pay wages and salaries are counted, although workers may live outside the area. Jobs are counted regardless of the number of hours worked. Individuals who hold more than one job may be counted more than once.

## Current Employment Statistics

These data are based on the Current Employment Statistics (CES) survey. The CES survey summarizes monthly employment, and hours and earnings data from a sample of California employers. This survey is also referred to as the establishment, or wage and salary employment survey. The estimates are revised in the following month as job information is received from additional employers. Final revisions to the statewide and local area data, referred to as “Benchmark data,” are made each March for the previous two years based on payroll tax reports submitted by California employers covered by the Unemployment Insurance program.

## Classification

Formerly, industry employment data were coded using the Standard Industrial Classification (SIC) system. In 1998, California began to transition from SIC to the new North American Industry Classification System (NAICS).

NAICS is the product of a cooperative effort on the part of the statistical agencies of the United States, Canada, and Mexico. It uses a production-oriented approach to categorize economic units. Units with similar production processes are classified in the same industry. NAICS focuses on how products and services are created, as opposed to SIC which focuses on what is produced. Using NAICS yields significantly different industry groupings than those produced using SIC. Due to these differences, NAICS data will not be directly comparable to the SIC-based data for earlier years.

Many programs within EDD produce or use data by industry, but some of these programs have not

yet transitioned from SIC to NAICS. For example, while the official estimates of employment by industry (also known as the Current Employment Statistics or CES program) began publishing data by NAICS with the release of Benchmark and monthly average data in February of 2003, the projections of employment by industry and occupation will not incorporate NAICS codes until the release of the 2002–2012 data (anticipated release in late 2003 or early 2004).

## Annual Average Data

Annual average data are derived by adding up the monthly data for each industry and dividing by twelve to determine an actual annual average. These annual average data may reflect major business openings, expansions, and closings. Or, these data may reflect trends affecting an entire industry such as economic conditions, structural and technological changes.

## Users of Wage and Salary Data

Economic developers, firms considering relocation, government agencies, grant writers, universities and anyone preparing reports on employment use wage and salary employment information to identify local industry trends. People looking for work and those counseling or placing others may learn about prospects for employment in various industries. Anyone seeking background information may use the wage and salary industry employment tables to look at the county's economy as a whole; at one industry; and/or at related industries for a firm's suppliers or for potential markets.

## Points to Consider

Monthly job estimates are not adjusted for seasonal changes in employment. It is important to keep in mind that month-to-month changes may be due to regular seasonal patterns in an industry. For instance, during the holiday shopping season, retail jobs increase and during the summer, there are more workers in the construction industry. On the other hand, changes may reflect new businesses, expansions, or closings. Comparison of monthly changes for the same period in prior years will provide a better understanding of whether the change is seasonal or atypical.

Monthly fluctuations in wage and salary employment are an essential part of the changes that occur in the dynamic economy of a county or region. It is important to study wage and salary employment data over time to evaluate the strength of the local economy.

Wage and salary employment data identify which industries have the largest number of jobs. However, an industry with a large number of workers may not necessarily be expanding; it may even be downsizing, while new and expanding industries may not have large numbers of existing jobs but are a good source for new job opportunities.

Annual average data, over time, tend to be a better indicator of employment trends for the various industries in an area.

#### **Additional Sources of Information**

You may consult the labor force and industry and occupational projections modules of this report for more information on economic conditions in the county. Or, you may speak with the Labor Market Information Division's (LMID) area consultants located throughout the state who are knowledgeable about the economic activities within their local areas. Other sources of information include:

- U. S. Bureau of Labor Statistics
- Local Chambers of Commerce
- Local Economic Development Organizations
- Local Newspapers
- Universities and Colleges

#### **Automated Access**

Access to current data is available through the Employment Development Department's Internet address at:

**[www.calmis.ca.gov](http://www.calmis.ca.gov)**

For technical assistance or additional information about the Employment Development Department's website, please call (916) 262-2162. To obtain contact information for local labor market consultants or to obtain current monthly data, customers may also call (916) 262-2162, or FAX (916) 262-2443.



**Sonoma County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
2000–2002 Annual Averages\*

Industry Title	2000	2001	2002
Total, All Industries	193,000	196,700	194,000
Total Farm	6,900	7,000	6,600
Total Nonfarm	186,100	189,800	187,400
Total Private	158,500	161,800	159,000
Goods Producing	43,700	44,300	40,400
Natural Resources and Mining	400	300	300
Construction	13,100	13,700	13,400
Residual-Building, Develop & Gen Cont & Hvy Const	5,000	5,100	5,100
Specialty Trade Contractors	8,100	8,600	8,300
Manufacturing	30,200	30,400	26,700
Durable Goods	19,200	19,400	15,800
Computer and Electronic Product Manufacturing	7,600	8,700	7,000
Residual-Computer and Peripheral Equipment Manufacturing	2,400	2,400	2,200
Electronic Instrument Manufacturing	5,300	6,200	4,900
Residual-Miscellaneous Manufacturing	11,600	10,700	8,800
Nondurable Goods	11,000	11,000	10,900
Food Man & Beverage & Tobacco	8,300	8,500	8,500
Residual-Textile Mills	2,700	2,500	2,400
Service Providing	142,400	145,400	147,000
Trade, Transportation and Utilities	33,600	34,100	34,200
Wholesale Trade	5,800	6,000	6,000
Retail Trade	23,700	24,100	24,100
Food and Beverage Stores	5,800	6,100	6,100
Grocery Stores	4,900	5,300	5,300
Residual-Specialty Food Stores	900	800	800
General Merchandise Stores	3,300	3,300	3,200
Residual-Miscellaneous Store Retailers	14,600	14,800	14,800
Transportation, Warehousing and Utilities	4,100	4,000	4,100
Information	4,100	4,500	4,200
Financial Activities	10,200	10,400	10,500
Finance and Insurance	7,200	7,300	7,400
Residual-Other Finance	3,600	3,900	4,100
Insurance Carriers and Related	3,500	3,400	3,300
Real Estate and Rental and Leasing	3,000	3,100	3,100
Professional and Business Services	20,600	20,000	19,300
Professional, Scientific and Technical Services	7,500	7,500	7,500
Management of Companies and Enterprises	3,000	3,200	2,900
Administrative and Support and Waste Services	10,100	9,300	8,900
Administrative and Support Services	9,600	8,800	8,300
Employment Services	4,200	3,400	3,000
Residual-Other Support Services	5,400	5,400	5,300
Waste Management and Remediation Services	600	500	600

\*March 2002 Benchmark figures.

**Sonoma County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
2000–2002 Annual Averages\*

Industry Title	2000	2001	2002
Educational and Health Services	22,000	22,900	23,800
Educational Services	2,400	2,900	2,900
Health Care and Social Assistance	19,600	20,000	20,900
Health Care	16,800	17,100	17,700
Social Assistance	2,900	3,000	3,200
Leisure and Hospitality	17,900	18,700	19,900
Arts, Entertainment, and Recreation	2,700	2,900	3,100
Accommodation and Food Service	15,200	15,800	16,800
Accommodation	2,700	2,900	3,400
Food Services and Drinking Places	12,500	12,900	13,400
Other Services	6,400	6,800	6,700
Government	27,600	28,000	28,400
Federal Government	2,100	1,900	1,800
State and Local Government	25,500	26,100	26,600
State Government	5,500	5,600	5,700
State Government Education	1,800	1,900	2,000
Other State Government	3,600	3,800	3,700
Local Government	20,000	20,500	20,800
Local Government Education	12,200	12,500	12,600
County	4,500	4,700	4,900
City	2,400	2,500	2,600
Other Local Government	800	800	800

\*March 2002 Benchmark figures.

**Sonoma County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2000\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total, All Industries	183,900	186,100	188,500	191,200	194,000	196,300	192,200	193,800	198,200	198,400	196,700	196,300	193,000
Total Farm	5,300	5,900	6,000	6,700	7,200	7,800	7,700	7,400	8,700	8,000	6,300	5,700	6,900
Total Nonfarm	178,600	180,200	182,500	184,500	186,800	188,500	184,500	186,400	189,500	190,400	190,400	190,600	186,100
Total Private	151,400	151,900	153,700	155,700	157,400	160,100	161,000	162,300	161,900	161,900	161,800	162,500	158,500
Goods Producing	40,700	40,700	41,400	42,300	42,900	43,900	44,900	45,400	46,100	45,800	45,200	44,900	43,700
Natural Resources and Mining	400	300	400	400	400	400	400	400	400	400	300	300	400
Construction	11,700	11,600	11,900	12,600	13,000	13,500	13,900	14,100	14,200	13,900	13,600	13,500	13,100
Residual-Building, Develop & Gen Cont & Hvy Const	4,500	4,400	4,400	4,700	4,900	5,100	5,400	5,400	5,400	5,400	5,300	5,100	5,000
Specialty Trade Contractors	7,200	7,200	7,500	7,900	8,100	8,400	8,500	8,700	8,800	8,500	8,300	8,400	8,100
Manufacturing	28,600	28,800	29,100	29,300	29,500	30,000	30,600	30,900	31,500	31,500	31,300	31,100	30,200
Durable Goods	18,400	18,500	18,700	18,600	18,600	19,000	19,400	19,500	19,600	19,900	20,000	20,100	19,200
Computer and Electronic Product Manufacturing	7,200	7,200	7,300	7,400	7,300	7,600	7,700	7,800	7,900	8,100	8,100	8,100	7,600
Residual-Computer and Peripheral Equipment Manufacturing	2,100	2,100	2,200	2,200	2,200	2,300	2,400	2,400	2,500	2,600	2,600	2,600	2,400
Electronic Instrument Manufacturing	5,100	5,100	5,100	5,200	5,100	5,300	5,300	5,400	5,400	5,500	5,500	5,500	5,300
Residual-Miscellaneous Manufacturing	11,200	11,300	11,400	11,200	11,300	11,400	11,700	11,700	11,700	11,800	11,900	12,000	11,600
Nondurable Goods	10,200	10,300	10,400	10,700	10,900	11,000	11,200	11,400	11,900	11,600	11,300	11,000	11,000
Food Man & Beverage & Tobacco	7,600	7,700	7,700	8,000	8,200	8,300	8,500	8,700	9,200	9,100	8,700	8,400	8,300
Residual-Textile Mills	2,600	2,600	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,500	2,600	2,600	2,700
Service Providing	137,900	139,500	141,100	142,200	143,900	144,600	139,600	141,000	143,400	144,600	145,200	145,700	142,400
Trade, Transportation and Utilities	33,000	32,600	32,600	33,000	33,300	33,500	33,500	33,600	33,500	34,000	34,900	35,500	33,600
Wholesale Trade	5,600	5,600	5,700	5,800	5,800	5,900	5,900	5,900	5,900	5,800	5,800	5,800	5,800
Retail Trade	23,400	23,000	22,900	23,100	23,400	23,400	23,500	23,600	23,500	24,200	25,100	25,600	23,700
Food and Beverage Stores	5,600	5,600	5,600	5,600	5,700	5,700	5,800	5,800	5,800	6,000	6,300	6,200	5,800
Grocery Stores	4,700	4,700	4,700	4,800	4,800	4,900	4,900	4,900	4,900	5,100	5,400	5,300	4,900
Residual-Specialty Food Stores	900	900	900	800	900	800	900	900	900	900	900	900	900
General Merchandise Stores	3,500	3,300	3,100	3,100	3,200	3,200	3,200	3,200	3,200	3,400	3,700	3,700	3,300
Residual-Miscellaneous Store Retailers	14,300	14,100	14,200	14,400	14,500	14,500	14,500	14,600	14,500	14,800	15,100	15,700	14,600
Transportation, Warehousing and Utilities	4,000	4,000	4,000	4,100	4,100	4,200	4,100	4,100	4,100	4,000	4,000	4,100	4,100
Information	3,700	3,800	3,900	3,900	4,000	4,100	4,000	4,100	4,200	4,300	4,300	4,400	4,100
Financial Activities	10,100	10,000	10,000	10,000	10,000	10,200	10,300	10,400	10,300	10,200	10,200	10,300	10,200
Finance and Insurance	7,200	7,200	7,200	7,100	7,100	7,100	7,300	7,300	7,200	7,100	7,100	7,200	7,200
Residual-Other Finance	3,600	3,600	3,600	3,600	3,600	3,600	3,700	3,700	3,600	3,600	3,700	3,700	3,600

\*March 2002 Benchmark figures.



**Sonoma County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2000\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Insurance Carriers and Related	3,600	3,600	3,600	3,500	3,500	3,500	3,600	3,600	3,600	3,500	3,400	3,500	3,500
Real Estate and Rental and Leasing	2,900	2,800	2,800	2,900	2,900	3,100	3,000	3,100	3,100	3,100	3,100	3,100	3,000
Professional and Business Services	19,600	19,900	20,400	20,600	20,600	21,100	20,800	21,000	21,000	20,800	20,700	21,100	20,600
Professional, Scientific and Technical Services	7,200	7,300	7,500	7,600	7,500	7,500	7,500	7,500	7,600	7,500	7,600	7,700	7,500
Management of Companies and Enterprises	3,100	3,100	3,000	2,900	2,900	2,900	2,900	2,900	3,000	3,100	3,100	3,100	3,000
Administrative and Support and Waste Services	9,300	9,500	9,900	10,100	10,200	10,700	10,400	10,600	10,400	10,200	10,000	10,300	10,100
Administrative and Support Services	8,800	9,000	9,400	9,500	9,600	10,100	9,800	10,000	9,800	9,600	9,500	9,800	9,600
Employment Services	3,800	3,900	4,100	4,200	4,100	4,400	4,200	4,300	4,400	4,200	4,000	4,400	4,200
Residual-Other Support Services	5,000	5,100	5,300	5,300	5,500	5,700	5,600	5,700	5,400	5,400	5,500	5,400	5,400
Waste Management and Remediation Services	500	500	500	600	600	600	600	600	600	600	500	500	600
Educational and Health Services	21,600	21,800	21,800	21,900	22,000	22,100	22,000	22,100	22,100	22,300	22,300	22,200	22,000
Educational Services	2,300	2,400	2,400	2,400	2,500	2,400	2,200	2,200	2,300	2,500	2,600	2,500	2,400
Health Care and Social Assistance	19,300	19,400	19,400	19,500	19,500	19,700	19,800	19,900	19,800	19,800	19,700	19,700	19,600
Health Care	16,500	16,600	16,600	16,600	16,700	16,800	16,900	17,000	17,000	16,800	16,800	16,800	16,800
Social Assistance	2,800	2,800	2,800	2,900	2,800	2,900	2,900	2,900	2,800	3,000	2,900	2,900	2,900
Leisure and Hospitality	16,400	16,800	17,200	17,600	18,200	18,600	19,000	19,200	18,300	18,200	17,900	17,800	17,900
Arts, Entertainment, and Recreation	2,400	2,400	2,500	2,600	2,900	2,800	3,100	3,100	2,700	2,700	2,700	2,800	2,700
Accommodation and Food Service	14,000	14,400	14,700	15,000	15,300	15,800	15,900	16,100	15,600	15,500	15,200	15,000	15,200
Accommodation	2,400	2,500	2,600	2,600	2,700	2,900	2,900	3,000	2,800	2,900	2,800	2,700	2,700
Food Services and Drinking Places	11,600	11,900	12,100	12,400	12,600	12,900	13,000	13,100	12,800	12,600	12,400	12,300	12,500
Other Services	6,300	6,300	6,400	6,400	6,400	6,600	6,500	6,500	6,400	6,300	6,300	6,300	6,400
Government	27,200	28,300	28,800	28,800	29,400	28,400	23,500	24,100	27,600	28,500	28,600	28,100	27,600
Federal Government	1,900	2,000	2,000	2,100	2,800	2,800	2,200	2,400	1,900	1,800	1,900	1,900	2,100
State and Local Government	25,300	26,300	26,800	26,700	26,600	25,600	21,300	21,700	25,700	26,700	26,700	26,200	25,500
State Government	5,100	5,400	5,600	5,600	5,600	5,400	5,200	5,200	5,600	5,600	5,700	5,600	5,500
State Government Education	1,500	1,800	2,000	2,000	2,000	1,800	1,500	1,500	1,900	2,000	2,100	2,000	1,800
Other State Government	3,600	3,600	3,600	3,600	3,600	3,600	3,700	3,700	3,700	3,600	3,600	3,600	3,600
Local Government	20,200	20,900	21,200	21,100	21,000	20,200	16,100	16,500	20,100	21,100	21,000	20,600	20,000
Local Government Education	12,800	13,300	13,400	13,400	13,300	12,200	8,000	8,500	12,200	13,300	13,200	13,000	12,200
County	4,400	4,500	4,600	4,500	4,500	4,600	4,500	4,600	4,600	4,600	4,600	4,500	4,500
City	2,200	2,300	2,400	2,400	2,400	2,600	2,600	2,500	2,500	2,400	2,400	2,400	2,400
Other Local Government	800	800	800	800	800	800	1,000	900	800	800	800	700	800

\*March 2002 Benchmark figures.



**Sonoma County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2001\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total, All Industries	191,300	193,900	195,800	197,200	199,200	199,700	195,800	196,600	199,900	199,500	195,900	195,600	196,700
Total Farm	5,600	6,000	6,100	6,800	7,500	8,000	7,800	7,600	8,900	7,700	5,800	5,600	7,000
Total Nonfarm	185,700	187,900	189,700	190,400	191,700	191,700	188,000	189,000	191,000	191,800	190,100	190,000	189,800
Total Private	158,200	159,100	160,600	161,400	162,200	163,400	163,700	164,600	163,600	162,700	160,700	161,000	161,800
Goods Producing	43,600	43,800	44,300	44,600	44,900	45,500	45,500	45,500	45,300	44,700	42,600	41,800	44,300
Natural Resources and Mining	300	300	300	300	300	300	300	300	300	300	300	300	300
Construction	12,800	12,800	13,300	13,300	13,600	14,000	14,400	14,500	14,300	14,200	13,600	13,300	13,700
Residual-Building, Develop & Gen Cont & Hvy Const	4,900	4,800	5,000	4,900	5,000	5,100	5,400	5,400	5,300	5,300	5,000	4,900	5,100
Specialty Trade Contractors	7,900	8,000	8,300	8,400	8,600	8,900	9,000	9,100	9,000	8,900	8,600	8,400	8,600
Manufacturing	30,500	30,700	30,700	31,000	31,000	31,200	30,800	30,700	30,700	30,200	28,700	28,200	30,400
Durable Goods	20,200	20,300	20,100	20,400	20,100	20,100	19,600	19,300	18,800	18,600	17,700	17,300	19,400
Computer and Electronic Product Manufacturing	8,800	9,000	9,000	9,000	9,000	8,800	8,800	8,600	8,500	8,400	8,000	8,000	8,700
Residual-Computer and Peripheral Equipment Manufacturing	2,600	2,600	2,600	2,600	2,600	2,400	2,400	2,200	2,300	2,300	2,200	2,200	2,400
Electronic Instrument Manufacturing	6,200	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,200	6,100	5,800	5,800	6,200
Residual-Miscellaneous Manufacturing	11,400	11,300	11,100	11,400	11,100	11,300	10,800	10,700	10,300	10,200	9,700	9,300	10,700
Nondurable Goods	10,300	10,400	10,600	10,600	10,900	11,100	11,200	11,400	11,900	11,600	11,000	10,900	11,000
Food Man & Beverage & Tobacco	7,800	7,900	8,100	8,100	8,400	8,500	8,700	8,900	9,400	9,100	8,400	8,400	8,500
Residual-Textile Mills	2,500	2,500	2,500	2,500	2,500	2,600	2,500	2,500	2,500	2,500	2,600	2,500	2,500
Service Providing	142,100	144,100	145,400	145,800	146,800	146,200	142,500	143,500	145,700	147,100	147,500	148,200	145,400
Trade, Transportation and Utilities	33,600	33,400	33,500	33,600	33,700	34,100	34,200	34,200	34,500	34,200	34,800	35,300	34,100
Wholesale Trade	5,700	5,700	5,700	5,900	5,900	6,000	6,200	6,200	6,100	6,000	6,000	6,000	6,000
Retail Trade	23,900	23,700	23,700	23,700	23,800	24,100	24,000	23,900	24,300	24,100	24,800	25,200	24,100
Food and Beverage Stores	5,900	6,000	6,000	6,000	6,000	6,100	6,100	6,100	6,100	6,100	6,300	6,100	6,100
Grocery Stores	5,100	5,200	5,200	5,200	5,200	5,200	5,300	5,300	5,400	5,300	5,500	5,300	5,300
Residual-Specialty Food Stores	800	800	800	800	800	900	800	800	700	800	800	800	800
General Merchandise Stores	3,300	3,100	3,200	3,100	3,200	3,200	3,200	3,100	3,300	3,300	3,500	3,700	3,300
Residual-Miscellaneous Store Retailers	14,700	14,600	14,500	14,600	14,600	14,800	14,700	14,700	14,900	14,700	15,000	15,400	14,800
Transportation, Warehousing and Utilities	4,000	4,000	4,100	4,000	4,000	4,000	4,000	4,100	4,100	4,100	4,000	4,100	4,000
Information	4,600	4,700	4,500	4,800	4,700	4,700	4,600	4,500	4,400	4,200	4,200	4,200	4,500
Financial Activities	10,000	10,000	10,100	10,200	10,300	10,400	10,500	10,500	10,500	10,600	10,500	10,700	10,400
Finance and Insurance	7,100	7,100	7,200	7,100	7,200	7,200	7,300	7,400	7,300	7,500	7,500	7,700	7,300
Residual-Other Finance	3,700	3,700	3,800	3,700	3,800	3,800	3,900	4,000	4,000	4,200	4,200	4,400	3,900

\*March 2002 Benchmark figures.

**Sonoma County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2001\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Insurance Carriers and Related	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,300	3,300	3,300	3,300	3,400
Real Estate and Rental and Leasing	2,900	2,900	2,900	3,100	3,100	3,200	3,200	3,100	3,200	3,100	3,000	3,000	3,100
Professional and Business Services	20,300	20,400	20,800	20,100	20,000	19,900	19,800	20,200	19,700	19,600	19,400	19,700	20,000
Professional, Scientific and Technical Services	7,400	7,600	7,700	7,600	7,500	7,300	7,400	7,400	7,300	7,400	7,300	7,500	7,500
Management of Companies and Enterprises	3,200	3,300	3,300	3,300	3,400	3,400	3,200	3,200	3,300	3,100	3,000	3,000	3,200
Administrative and Support and Waste Services	9,700	9,500	9,800	9,200	9,100	9,200	9,200	9,600	9,100	9,100	9,100	9,200	9,300
Administrative and Support Services	9,200	9,000	9,200	8,700	8,500	8,700	8,700	9,100	8,500	8,500	8,500	8,700	8,800
Employment Services	4,200	3,900	4,100	3,500	3,200	3,200	3,100	3,300	3,000	3,100	3,100	3,200	3,400
Residual-Other Support Services	5,000	5,100	5,100	5,200	5,300	5,500	5,600	5,800	5,500	5,400	5,400	5,500	5,400
Waste Management and Remediation Services	500	500	600	500	600	500	500	500	600	600	600	500	500
Educational and Health Services	22,400	22,700	22,800	23,000	22,800	22,500	22,700	22,900	23,000	23,500	23,500	23,500	22,900
Educational Services	2,800	2,900	3,000	3,200	3,000	2,800	2,600	2,700	2,900	3,000	3,000	2,900	2,900
Health Care and Social Assistance	19,600	19,800	19,800	19,800	19,800	19,700	20,100	20,200	20,100	20,500	20,500	20,600	20,000
Health Care	16,800	16,800	16,900	16,800	16,800	16,700	17,100	17,200	17,200	17,400	17,400	17,500	17,100
Social Assistance	2,800	3,000	2,900	3,000	3,000	3,000	3,000	3,000	2,900	3,100	3,100	3,100	3,000
Leisure and Hospitality	17,200	17,400	17,900	18,300	18,900	19,300	19,400	19,700	19,300	19,200	19,000	19,000	18,700
Arts, Entertainment, and Recreation	2,600	2,500	2,700	2,900	3,100	3,100	3,300	3,300	2,900	2,900	2,800	2,900	2,900
Accommodation and Food Service	14,600	14,900	15,200	15,400	15,800	16,200	16,100	16,400	16,400	16,300	16,200	16,100	15,800
Accommodation	2,600	2,700	2,800	2,800	3,000	3,000	3,100	3,100	3,000	2,900	2,900	2,800	2,900
Food Services and Drinking Places	12,000	12,200	12,400	12,600	12,800	13,200	13,000	13,300	13,400	13,400	13,300	13,300	12,900
Other Services	6,500	6,700	6,700	6,800	6,900	7,000	7,000	7,100	6,900	6,700	6,700	6,800	6,800
Government	27,500	28,800	29,100	29,000	29,500	28,300	24,300	24,400	27,400	29,100	29,400	29,000	28,000
Federal Government	1,900	1,800	1,900	1,900	1,900	1,800	1,800	1,900	1,900	1,900	1,900	1,900	1,900
State and Local Government	25,600	27,000	27,200	27,100	27,600	26,500	22,500	22,500	25,500	27,200	27,500	27,100	26,100
State Government	5,300	5,700	5,800	5,800	5,900	5,600	5,500	5,400	5,100	5,900	5,800	5,800	5,600
State Government Education	1,700	2,000	2,100	2,100	2,100	1,800	1,600	1,600	1,300	2,100	2,100	2,100	1,900
Other State Government	3,600	3,700	3,700	3,700	3,800	3,800	3,900	3,800	3,800	3,800	3,700	3,700	3,800
Local Government	20,300	21,300	21,400	21,300	21,700	20,900	17,000	17,100	20,400	21,300	21,700	21,300	20,500
Local Government Education	12,800	13,500	13,600	13,600	13,700	12,700	8,400	8,700	12,300	13,300	13,600	13,400	12,500
County	4,600	4,600	4,600	4,600	4,700	4,700	4,800	4,800	4,800	4,800	4,800	4,800	4,700
City	2,300	2,300	2,400	2,400	2,500	2,700	2,700	2,700	2,500	2,500	2,500	2,400	2,500
Other Local Government	600	900	800	700	800	800	1,100	900	800	700	800	700	800

\*March 2002 Benchmark figures.



**Sonoma County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2002\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total, All Industries	190,000	191,200	192,900	192,700	196,200	197,200	192,800	193,200	197,700	196,400	194,500	193,500	194,000
Total Farm	5,700	5,900	5,700	6,000	7,200	7,500	7,900	7,300	8,800	7,100	5,400	5,200	6,600
Total Nonfarm	184,300	185,300	187,200	186,700	189,000	189,700	184,900	185,900	188,900	189,300	189,100	188,300	187,400
Total Private	155,700	156,100	157,400	156,900	159,700	160,600	160,700	161,400	160,800	160,000	159,500	159,500	159,000
Goods Producing	40,000	40,100	40,300	39,900	40,600	41,000	41,100	41,000	41,300	40,800	39,600	39,000	40,400
Natural Resources and Mining	300	300	300	300	300	300	300	300	300	300	300	300	300
Construction	12,400	12,700	12,800	12,900	13,200	13,600	13,900	14,100	14,100	14,100	13,700	13,400	13,400
Residual-Building, Develop & Gen Cont & Hvy Const	4,600	4,800	4,600	4,900	5,000	5,200	5,400	5,400	5,400	5,400	5,200	5,100	5,100
Specialty Trade Contractors	7,800	7,900	8,200	8,000	8,200	8,400	8,500	8,700	8,700	8,700	8,500	8,300	8,300
Manufacturing	27,300	27,100	27,200	26,700	27,100	27,100	26,900	26,600	26,900	26,400	25,600	25,300	26,700
Durable Goods	16,600	16,300	16,300	16,100	16,200	16,200	16,000	15,700	15,400	15,100	14,800	14,700	15,800
Computer and Electronic Product Manufacturing	7,600	7,300	7,400	7,200	7,200	7,100	7,100	7,000	6,900	6,700	6,400	6,400	7,000
Residual-Computer and Peripheral Equipment Manufacturing	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,100	2,100	2,000	2,000	2,200
Electronic Instrument Manufacturing	5,400	5,100	5,200	5,000	5,000	4,900	4,900	4,800	4,800	4,600	4,400	4,400	4,900
Residual-Miscellaneous Manufacturing	9,000	9,000	8,900	8,900	9,000	9,100	8,900	8,700	8,500	8,400	8,400	8,300	8,800
Nondurable Goods	10,700	10,800	10,900	10,600	10,900	10,900	10,900	10,900	11,500	11,300	10,800	10,600	10,900
Food Man & Beverage & Tobacco	8,300	8,400	8,500	8,200	8,500	8,500	8,500	8,600	9,200	9,000	8,500	8,300	8,500
Residual-Textile Mills	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,300	2,300	2,300	2,300	2,300	2,400
Service Providing	144,300	145,200	146,900	146,800	148,400	148,700	143,800	144,900	147,600	148,500	149,500	149,300	147,000
Trade, Transportation and Utilities	33,800	33,400	33,500	33,600	34,200	34,500	34,300	34,300	34,400	34,300	35,000	35,400	34,200
Wholesale Trade	5,900	5,900	6,000	6,000	6,000	6,000	6,100	6,100	6,000	6,000	6,000	6,000	6,000
Retail Trade	23,900	23,500	23,500	23,700	24,200	24,400	24,000	24,000	24,200	24,100	24,800	25,200	24,100
Food and Beverage Stores	6,000	5,900	6,000	6,000	6,000	6,100	6,200	6,300	6,200	6,200	6,400	6,300	6,100
Grocery Stores	5,200	5,100	5,200	5,200	5,200	5,200	5,400	5,400	5,400	5,400	5,600	5,500	5,300
Residual-Specialty Food Stores	800	800	800	800	800	900	800	900	800	800	800	800	800
General Merchandise Stores	3,300	3,100	3,000	3,000	3,000	3,000	3,000	3,000	3,200	3,300	3,600	3,800	3,200
Residual-Miscellaneous Store Retailers	14,600	14,500	14,500	14,700	15,200	15,300	14,800	14,700	14,800	14,600	14,800	15,100	14,800
Transportation, Warehousing and Utilities	4,000	4,000	4,000	3,900	4,000	4,100	4,200	4,200	4,200	4,200	4,200	4,200	4,100
Information	4,200	4,200	4,200	4,200	4,300	4,200	4,200	4,200	4,200	4,200	4,300	4,200	4,200
Financial Activities	10,300	10,300	10,300	10,400	10,600	10,500	10,600	10,600	10,500	10,500	10,500	10,500	10,500
Finance and Insurance	7,400	7,400	7,300	7,400	7,400	7,400	7,400	7,500	7,300	7,300	7,300	7,300	7,400
Residual-Other Finance	4,100	4,100	4,000	4,100	4,200	4,200	4,100	4,200	4,100	4,100	4,100	4,100	4,100
Insurance Carriers and Related	3,300	3,300	3,300	3,300	3,200	3,200	3,300	3,300	3,200	3,200	3,200	3,200	3,300

\*March 2002 Benchmark figures.

**Sonoma County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2002\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Real Estate and Rental and Leasing	2,900	2,900	3,000	3,000	3,200	3,100	3,200	3,100	3,200	3,200	3,200	3,200	3,100
Professional and Business Services	19,000	19,100	19,400	18,900	19,000	19,400	19,100	19,800	19,500	19,400	19,200	19,500	19,300
Professional, Scientific and Technical Services	7,400	7,500	7,600	7,600	7,500	7,500	7,400	7,500	7,500	7,500	7,500	7,600	7,500
Management of Companies and Enterprises	3,100	3,100	3,100	3,000	2,900	2,900	2,800	2,800	2,800	2,700	2,600	2,600	2,800
Administrative and Support and Waste Services	8,500	8,500	8,700	8,300	8,600	9,000	8,900	9,500	9,200	9,200	9,100	9,300	8,900
Administrative and Support Services	7,900	8,000	8,100	7,800	8,000	8,400	8,400	8,900	8,600	8,600	8,500	8,700	8,300
Employment Services	2,600	2,700	2,800	2,500	2,700	2,900	3,000	3,300	3,300	3,400	3,400	3,500	3,000
Residual-Other Support Services	5,300	5,300	5,300	5,300	5,300	5,500	5,500	5,600	5,300	5,200	5,100	5,200	5,300
Waste Management and Remediation Services	600	500	600	500	600	600	500	600	600	600	600	600	600
Educational and Health Services	23,500	23,800	24,000	24,000	24,000	23,800	23,400	23,600	23,700	24,000	24,100	24,000	23,800
Educational Services	2,900	3,000	3,100	3,000	3,100	2,900	2,700	2,700	2,900	3,000	3,000	2,900	2,900
Health Care and Social Assistance	20,600	20,800	20,900	21,000	20,900	20,900	20,700	20,900	20,800	21,000	21,100	21,100	20,900
Health Care	17,500	17,600	17,800	17,700	17,700	17,700	17,600	17,700	17,700	17,800	17,900	17,900	17,700
Social Assistance	3,100	3,200	3,100	3,300	3,200	3,200	3,100	3,200	3,100	3,200	3,200	3,200	3,200
Leisure and Hospitality	18,400	18,600	19,000	19,200	20,100	20,400	20,700	21,000	20,500	20,200	20,200	20,300	19,900
Arts, Entertainment, and Recreation	2,800	2,900	3,000	3,000	3,200	3,200	3,300	3,300	3,100	3,100	3,100	3,200	3,100
Accommodation and Food Service	15,600	15,700	16,000	16,200	16,900	17,200	17,400	17,700	17,400	17,100	17,100	17,100	16,800
Accommodation	3,000	3,000	3,100	3,200	3,400	3,600	3,700	3,800	3,700	3,600	3,600	3,500	3,400
Food Services and Drinking Places	12,600	12,700	12,900	13,000	13,500	13,600	13,700	13,900	13,700	13,500	13,500	13,600	13,400
Other Services	6,500	6,600	6,700	6,700	6,900	6,800	7,300	6,900	6,700	6,600	6,600	6,600	6,700
Government	28,600	29,200	29,800	29,800	29,300	29,100	24,200	24,500	28,100	29,300	29,600	28,800	28,400
Federal Government	1,800	1,800	1,900	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
State and Local Government	26,800	27,400	27,900	28,000	27,500	27,300	22,400	22,700	26,300	27,500	27,800	27,000	26,600
State Government	5,700	5,500	5,800	5,800	5,800	5,900	5,400	5,400	5,500	5,900	5,900	5,900	5,700
State Government Education	2,000	1,800	2,100	2,100	2,100	2,100	1,700	1,700	1,800	2,200	2,300	2,300	2,000
Other State Government	3,700	3,700	3,700	3,700	3,700	3,800	3,700	3,700	3,700	3,700	3,600	3,600	3,700
Local Government	21,100	21,900	22,100	22,200	21,700	21,400	17,000	17,300	20,800	21,600	21,900	21,100	20,800
Local Government Education	13,000	13,800	13,900	13,900	13,400	13,000	8,300	8,800	12,600	13,400	13,800	13,000	12,600
County	4,800	4,800	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,800	4,800	4,900
City	2,600	2,600	2,600	2,700	2,700	2,700	2,800	2,700	2,500	2,500	2,500	2,400	2,600
Other Local Government	700	700	700	700	700	800	1,000	900	800	800	800	900	800

\*March 2002 Benchmark figures.



# *Projections & Planning Information*

## **Module D:**

# **Projections**



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# INTRODUCTION

## to Industry and Occupational Projections

### Using Projections Data

The projections contained in these tables provide information for estimating job opportunities, developing training programs, and gaining an insight into future employment trends. However, before reaching any final conclusions, the user should consider the following:

***Remember that these data are estimates.***

They were developed based on the assumption that historical trends will continue into the future. However, events may occur during the seven-year projection period that are impossible to predict. Events such as military base closures, major business closures or openings and natural disasters can all have a major impact on employment levels.

***Do not use these projections as your sole source of information.*** Use other, more recent sources of local economic data to corroborate the projection data. This information may be found in other documents such as those published by the Employment Development Department's Labor Market Information Division, local chambers of commerce, or local economic development agencies.

***Projections employment data are annual averages.*** These averages may not accurately portray seasonal occupations or industries such as those found in agriculture, retail sales, recreation, and construction.

***Employment levels stated reflect workers who are covered by the Unemployment Insurance program.*** As a result, industries that are made up largely of individuals who are

self-employed will be understated. Examples include industries such as real estate, hair salons, and bookkeeping. Occupations such as dental hygienists and consultants will also show an understated level of employment.

### Industry Projections

Projections by industry forecast the anticipated changes within an industry over time. Forecasts for each county are based on the county's past employment trends and are refined by a review of current economic developments within the local community. The effect of State-level economic trends are also considered.

Industry employment projections utilize industry employment data from both the Current Employment Statistics (CES) program, and the Employment Payroll (ES202) program. There is a certain amount of error built into both systems. These errors may include employers classified in the wrong industry, incorrect employment levels reported by the employer and employment reported in the wrong county.

If an industry shows a decrease in future employment, it may be that only one or two industry components are experiencing the decline and other components are still expected to hire new workers. It is best to investigate all sectors of the industry. For example, retail trade has several components: building materials and garden supplies; general merchandise stores; food stores, automotive dealers and service stations; and apparel and accessory stores, to name a few.

Geographical differences account for differing employment opportunities. If an individual is considering relocating from one area of the state to another, the size of the industry and its expected growth level need to be kept in mind. Small rural counties will not have the same employment possibilities as do the larger metropolitan areas.

#### Knowing Future Industry Trends:

- ✓ helps economic development professionals foster compatible growth and promote the county's strengths,
- ✓ helps local government agencies, non-profit agencies, researchers and other interested parties formulate plans and proposals,
- ✓ helps people looking for work and those doing counseling and/or job placement to learn about employment opportunities in various industries.

### **Occupational Projections**

Projections by occupation estimate the changes in occupational employment over time resulting from two principal causes - growth and technology. Changes in the number, size and type of employers within a given geographical area will affect the demand for certain occupations. Also, technological advances or changes in laws or regulations may affect the occupational mix.

County occupational projections are prepared for all but the smaller counties which are grouped together to produce projections at the multicounty level.

General changes in the work place affect some occupations. Jobs may be created, eliminated or consolidated because of restructuring or regulations affecting the requirements for the job. For example, personal computers and word processing programs eliminated many typist jobs, but created a need for word processors.

An occupational title does not give details about the occupation. An individual starting a career search may want to look at the various occupations in this module, choose any that are of interest and then do further research on the occupation or occupations of choice.

There are other sources of information (listed below) about specific occupations and the details, such as skills and educational requirements, hourly earnings, benefits, working conditions and advancement opportunities.

Industry staffing patterns used for the projections process are developed from the annual OES Survey of employers. The survey utilizes a sample of the entire universe of Unemployment Insurance (UI) covered employers. Because it is a survey, it is important that the following points be considered:

- ✓ There is inherent statistical error as a result of both the sampling process and the level of employer response to the survey mailings.
- ✓ The OES staffing patterns may contain errors because of the problems employers may have in completing the survey. These errors typically include misunderstanding of survey instructions, misinterpretation of occupational definitions and/or titles contained on the forms, and clerical errors in filling out the forms.
- ✓ The employer's response to the survey may reflect conditions that are atypical. The employer may be experiencing a temporary shutdown, seasonal high or low employment, or a temporary increase in demand for his/her product or service.

Occupational projections data indicate the major local occupations and which occupations are likely to offer the greatest number of job opportunities. When possible, the user should focus on larger groups rather than specific occupations. Some occupations may not appear in published tables because of the



very small number of people employed in that area or because of confidentiality concerns.

Although an occupation may be stable and is not expected to grow, it does not mean that there are no opportunities for employment. All occupations have turnover opportunities - individuals change or leave their jobs permanently for varying reasons. High turnover, especially in occupations that require lower-skill levels, would mean that there are frequent openings even though there is little or no growth.

The occupational projections data are prepared for employment and training planners, vocational educators, and others who need information on future employment by occupation. The outlook information can be used in making occupational training decisions and career choices. Employers considering expansion or relocation may find the data helpful in understanding the occupational composition and trends in a county or geographic region.

### **Additional Sources of Information**

For additional information on economic conditions in a particular county, you may contact the Labor Market Information Division's area consultants who are located in the community and are knowledgeable about the economic activities within the counties that they serve, and the local One Stop locations where additional publications on labor market information may be obtained. Other sources of information include:

- Wage And Salary Employment by Industry
- Bureau of Labor Statistics, Occupational Outlook Handbook
- California Occupational Guides
- Bureau of Labor Statistics, Dictionary of Occupational Titles

- California Association for Local Economic Development (CALED)
- Local Chambers of Commerce
- Local Economic Development Organizations
- Local Newspapers
- Standard Industrial Classification Manual

### **Automated Access**

Electronic access to current data is available through the Employment Development Department's Internet address at:

**<http://www.calmis.ca.gov>**

For technical assistance or additional information about the Employment Development Department's Internet website, please call (916) 262-2162 and select option #2. Customers may also call (916) 262-2162 or FAX (916) 262-2443 to order other publications.



# Description Of Industry and Occupational Tables

Employment includes nonagricultural wage and salary workers except for self-employed persons, unpaid family workers, private household workers, and those involved in labor-management trade disputes. For the Federal government sector, employment includes all civilian employees regardless of the activities in which they are engaged.

An **industry division** refers to a distinct group of private, public, or nonprofit enterprises engaged in producing goods or providing services. With the exception of government, industries are classified by the Standard Industrial Classification (SIC) system. Industries are grouped into ten major categories, according to the economic activity involved. The ten major categories or industry divisions are:

*Agriculture, Forestry, and Fishing (SIC 01-09)* includes establishments primarily engaged in agricultural production, forestry, commercial fishing, hunting and trapping, and related services.

*Mining (SIC 10-14)* includes all establishments involved in the extraction of minerals, crude petroleum, and natural gas. It includes quarrying, well operations, milling, and other related activities.

*Construction (SIC 15-17)* includes establishments engaged in contract construction. This includes new work, additions, alterations, and repairs performed by general and special trade contractors.

*Manufacturing (SIC 20-39)* includes establishments which are usually described as plants, factories, or mills that are engaged in producing or processing non-durable or durable goods. These characteristically use power-driven machines and material-handling equipment.

*Transportation and Public Utilities (SIC 40-49)* includes enterprises engaged in passenger and freight transportation by surface, water, and air and warehousing and other transportation services. It also includes the communications complex of telephone, telegraph, radio, and television; and the utilities providing gas, electric, and sanitary services.

*Wholesale Trade (SIC 50-51)* includes establishments involved in the selling of merchandise to retailers; to industrial, commercial, farm, construction contractors, or professional business users; or to other wholesalers.

*Retail Trade (SIC 52-59)* includes establishments involved in the selling of merchandise for personal or household consumption and rendering services incidental to the sale of goods.

*Finance, Insurance, and Real Estate (SIC 60-67)* includes banks, savings and loan institutions, and security and commodity brokerages, insurance agencies and carriers, real estate sales and management offices, and rental and planning agencies.

*Services (SIC 70-89)* includes establishments such as hotels, laundries, auto repair shops, theaters, legal services, advertising services, private schools and hospitals, and nonprofit organizations which are engaged in rendering a variety of services to individuals and businesses.

*Government* includes the legislative, judicial, administrative, and regulatory activities of federal, state, local and international governments. It also includes federal, state, and local government hospitals and education.

## Industry Tables

### Employment By Major Industry -Table 1

This table shows 1997 estimated employment and 2004 projected employment along with the percentage of total employment for each major industry division.

### Employment By Industry - Table 2

This table shows employment and projected employment by industry. The number of jobs is estimated for 1997 and projected for 2004. The column entitled "SIC" lists the Standard Industrial Classification code for each industry grouping. The column labeled "Absolute Change" provides the projected change in employment between 1997 and 2004. The "Percent Change" column is the growth rate over the seven-year period.

**Occupational groups** are groups of occupations with similar skills and/or educational requirements, based on the OES groupings. There are over 800 detailed occupations and close to 100 summary level occupations in the Occupational Employment Statistics (OES) classification system. The seven occupational groups are listed below.

*Managers And Administrative* occupations are top and mid-level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of a firm. First-line supervisors are excluded from this category.

*Professional, Paraprofessional, And Technical* occupations are concerned with theoretical or practical aspects of such fields as science, art, education, health, law, and business relations. Professional occupations generally require long and intensive preparation, while technical occupations work closely with professional personnel and are required to have a combination of basic scientific knowledge and specialized education.

*Sales And Related* occupations are concerned with influencing customers to buy commodities, services, real estate, and investments.

*Clerical And Administrative Support* occupations prepare, transcribe, systematize, and preserve written communications and records; distribute information; and collect accounts.

*Service Occupations* prepare and serve food and drink; provide lodging and related services; provide grooming, cosmetic, and other personal and health care services; maintain and clean clothing and other wearing apparel; provide protection for people and property; attend to the comfort or requests of patrons of amusement and recreation facilities; and perform cleaning and maintenance services in the interiors of buildings.

*Agricultural, Forestry, And Fishing* occupations in this report include only forestry workers, nursery workers, animal caretakers, and gardeners and groundskeepers.

*Production, Construction, Operating, Maintenance, and Material Handling* are skilled, semi-skilled, and unskilled workers performing machine and manual tasks involving production, construction, operating maintenance, repair, and material handling operations.

## Occupational Tables

### Employment By Major Occupational Group - Table 3

This table shows 1997 and 2004 employment and projected employment for the seven major occupational groups. The "Percent of Total" column displays the percentage of total employment each major occupational group represents. The "Absolute Change" column gives the number of job opportunities resulting from the creation of new jobs. "Percent Change" shows the percentage change for each occupational group.



### **Occupations With The Greatest Absolute Job Growth - Table 4**

This table lists the 50 occupations that are projected to register the largest absolute change between 1997 and 2004. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new jobs over the 1997-2004 period.

### **Occupations With The Fastest Job Growth - Table 5**

This table lists the 50 occupations with the greatest projected percentage increases. It provides a different perspective to future occupational employment changes. It is important to note that some of these occupations are increasing rapidly from relatively small employment levels and are not necessarily found in Table 4.

### **Occupational Employment Projections - Table 6**

This table provides occupational detail for up to 800 occupations. Annual average employment in each occupation is shown for 1997 and 2004. The column headed "Absolute Change" presents the number of job opportunities resulting from the creation of new jobs. The "Percent Change" column shows the percentage change for each occupation. The next column, "Openings Due to Separations", shows job opportunities that are created by workers leaving the occupation. Also included in this table is the Occupational Employment Statistics (OES) codes column. It shows the distinctive California OES code for each occupational title.

Each occupation in Table 6 is identified by a line number. The Alphabetical Index of Occupations section found in this module may be used to locate individual occupations in the detailed

table. The same line numbers are used in all area reports for 1997-2004. Line numbers may be different for other time periods. Not all line numbers appear in all counties; missing line numbers indicate occupations with no employment or employment below the area's cutoff point for publishing.

### **Occupations With The Most Openings - Table 7 (Growth Plus Separations)**

This table lists the occupations that are projected to register the largest absolute growth and separations between 1997 and 2004. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new job openings over the 1997-2004 period.

### **Occupations With Projected Decline - Table 8**

This table lists the occupations that are projected to decline over the 1997-2004 time period. Declining employment is a sign that the occupation has no growth. However, turnover may result in some job opportunities.

# Training Level Definitions

Occupational training and education classifications were developed by the Bureau of Labor Statistics to improve on prior classification systems that did not distinguish between occupations with comparable educational requirements. For example, neither carpenters nor laborers require formal education beyond high school, but the complexity of the work and the training time required results in carpenters being placed in the long-term on-the-job training category and laborers placed in the short-term on-the-job training category. Of course there is more than one way to qualify for a job. In this classification system, the education and training required reflects the manner in which most workers become proficient in that occupation and the preferences of most employers.

**1. First professional degree.** Occupations that require at least two years of full-time academic study beyond a bachelor's degree (for example, law, medicine, dentistry and clergy).

**2. Doctoral degree.** Occupations that require at least three years of full-time academic study beyond a bachelor's degree culminating in a doctoral degree.

**3. Master's degree.** Occupations that require the completion of a master's degree program which is usually one to two years beyond a bachelor's degree.

**4. Bachelor's or higher and some work experience.** Occupations that generally require work experience in an occupation requiring a bachelor's or higher degree. Most occupations in this category are managerial occupations that require work experience in a related non-managerial occupation.

**5. Bachelor's degree.** Occupations that require the completion of at least 4 but not more than 5 years of full-time academic study beyond high school resulting in a Bachelor's degree.

**6. Associate degree.** Occupations that require the completion of at least 2 years of full-time academic study beyond high school.

**7. Post-secondary vocational education.** Occupations that require completion of vocational school training.

**8. Work experience.** Occupations that require skills obtained through work experience in a related occupation.

**9. Long-term on-the-job training.** Occupations that require more than 12 months of on-the-job training or combined work experience and formal classroom instruction for workers to develop the skills needed for average job performance.

**10. Moderate-term on-the-job training.** Occupations in which workers can develop average job performance after 1 to 12 months of combined on-the-job experience and informal training.

**11. Short-term on-the-job-training.** Occupations in which workers can develop skills needed after a short demonstration or up to one month of on-the-job experience and instruction.

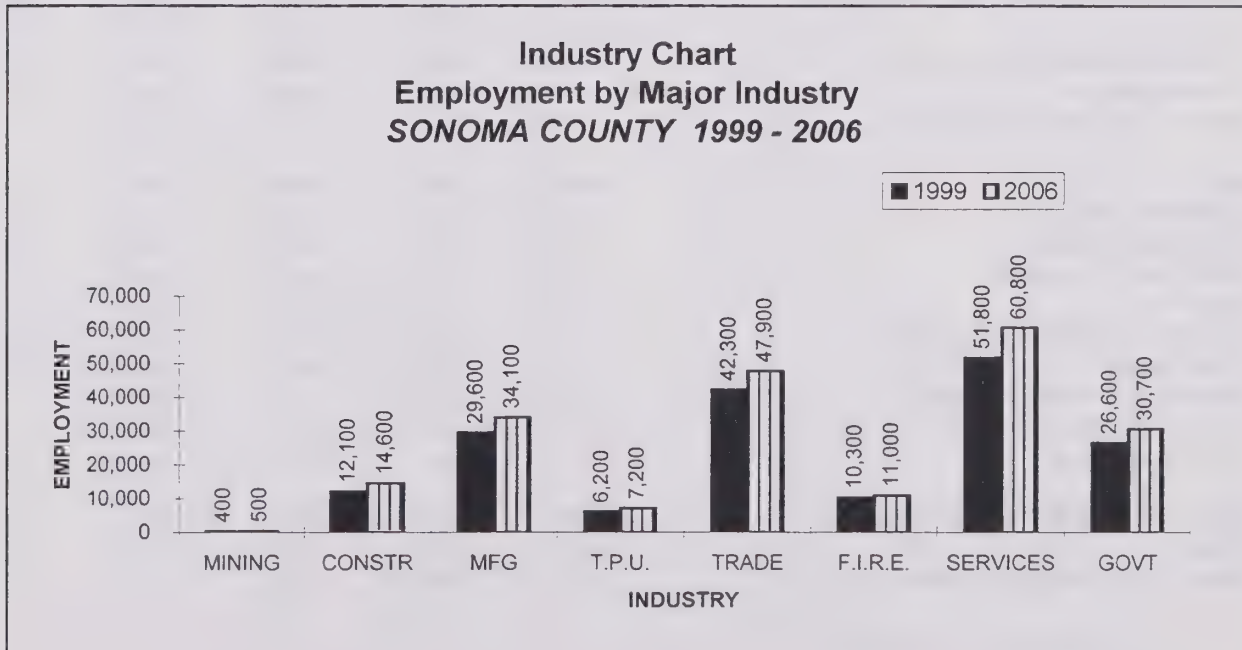




**Table 1**  
**Employment By Major Industry (1)**  
**1999 - 2006 Annual Averages**  
**SONOMA COUNTY**

INDUSTRY	1999 (2)	PERCENT OF TOTAL	2006	PERCENT OF TOTAL
<b>TOTAL NONFARM</b>	<b>179,300</b>	<b>100.0%</b>	<b>206,800</b>	<b>100.0%</b>
MINING	400	0.2%	500	0.2%
CONSTRUCTION	12,100	6.7%	14,600	7.1%
MANUFACTURING	29,600	16.5%	34,100	16.5%
TRANSPORTATION & PUBLIC UTILITIES	6,200	3.5%	7,200	3.5%
TRADE	42,300	23.6%	47,900	23.2%
FINANCE, INSURANCE, & REAL ESTATE	10,300	5.7%	11,000	5.3%
SERVICES	51,800	28.9%	60,800	29.4%
GOVERNMENT	26,600	14.8%	30,700	14.8%

- (1) Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.
- (2) March 2000 benchmark.



**Table 2**  
**Industry Employment Projections (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

INDUSTRY	SIC	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE
		1999 (2)	2006		
<b>TOTAL NONFARM</b>	<b>10-99(ex 88), 074,075,078</b>	<b>179,300</b>	<b>206,800</b>	<b>27,500</b>	<b>15.3</b>
<b>GOODS PRODUCING</b>	<b>10-39</b>	<b>42,100</b>	<b>49,200</b>	<b>7,100</b>	<b>16.9</b>
<b>MINING</b>	<b>10-14</b>	<b>400</b>	<b>500</b>	<b>100</b>	<b>25.0</b>
<b>CONSTRUCTION</b>	<b>15-17</b>	<b>12,100</b>	<b>14,600</b>	<b>2,500</b>	<b>20.7</b>
<b>MANUFACTURING</b>	<b>20-39</b>	<b>29,600</b>	<b>34,100</b>	<b>4,500</b>	<b>15.2</b>
Durable Goods	24,25,32-39	18,000	20,500	2,500	13.9
Lumber & Wood Products	24	1,500	1,500	0	0.0
Industrial Machinery	35	2,100	2,200	100	4.8
Electronic Equipment	36	2,300	2,600	300	13.0
Instruments & Related Products	38	9,000	10,600	1,600	17.8
Other Durable Goods		3,100	3,600	500	16.1
Nondurable Goods	20-23,26-31	11,600	13,600	2,000	17.2
Food & Kindred Products	20	8,200	9,200	1,000	12.2
Other Nondurable Goods		3,500	4,400	900	25.7
<b>SERVICE PRODUCING</b>	<b>40-99(ex 88), 074,075,078</b>	<b>137,200</b>	<b>157,600</b>	<b>20,500</b>	<b>14.9</b>
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>40-42,44-49</b>	<b>6,200</b>	<b>7,200</b>	<b>1,000</b>	<b>16.1</b>
Transportation	40-42,44-47	3,600	4,200	600	16.7
Communications & Public Utilities	48,49	2,600	3,000	400	15.4
Communications	48	1,500	1,800	300	20.0
Electric, Gas & Sanitary Services	49	1,100	1,200	100	9.1
<b>TRADE</b>	<b>50-59</b>	<b>42,300</b>	<b>47,900</b>	<b>5,700</b>	<b>13.5</b>
Wholesale Trade	50,51	7,000	8,200	1,200	17.1
Wholesale—Durable	50	3,600	4,300	700	19.4
Wholesale—Nondurable	51	3,400	3,900	500	14.7
Retail Trade	52-59	35,200	39,700	4,500	12.8
General Merchandise & Apparel	53,56	4,700	5,200	500	10.6
Food Stores	54	5,800	6,600	800	13.8
Automotive Dealers & Service	55	3,900	4,200	300	7.7
Eating & Drinking Places	58	11,900	13,800	1,900	16.0
Other Retail Trade		9,000	9,900	900	10.0
<b>FINANCE, INSURANCE &amp; REAL ESTATE</b>	<b>60-65,67</b>	<b>10,300</b>	<b>11,000</b>	<b>700</b>	<b>6.8</b>
Finance	60-62,67	4,600	5,000	400	8.7
Other Finance, Insurance & Real Estate		5,700	6,000	300	5.3



**Table 2**  
**Industry Employment Projections (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

INDUSTRY	SIC	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE
		1999 (2)	2006		
<b>SERVICES</b>	<b>70-89,</b>	<b>51,800</b>	<b>60,800</b>	<b>9,000</b>	<b>17.4</b>
	<b>074,075,078</b>				
Business Services	73	9,700	13,300	3,600	37.1
Health Services	80	14,000	16,000	2,000	14.3
Other Services		28,100	31,500	3,400	12.1
<b>GOVERNMENT</b>		<b>26,600</b>	<b>30,700</b>	<b>4,100</b>	<b>15.4</b>
Federal Government		1,900	2,300	400	21.1
State & Local Government		24,700	28,400	3,700	15.0
State Government		5,100	5,900	800	15.7
State Education		1,700	2,200	500	29.4
Other State Government		3,400	3,700	300	8.8
Local Government		19,600	22,500	2,900	14.8
Local Education		12,000	14,000	2,000	16.7
Local Noneducation		7,600	8,500	900	11.8

(1) Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.

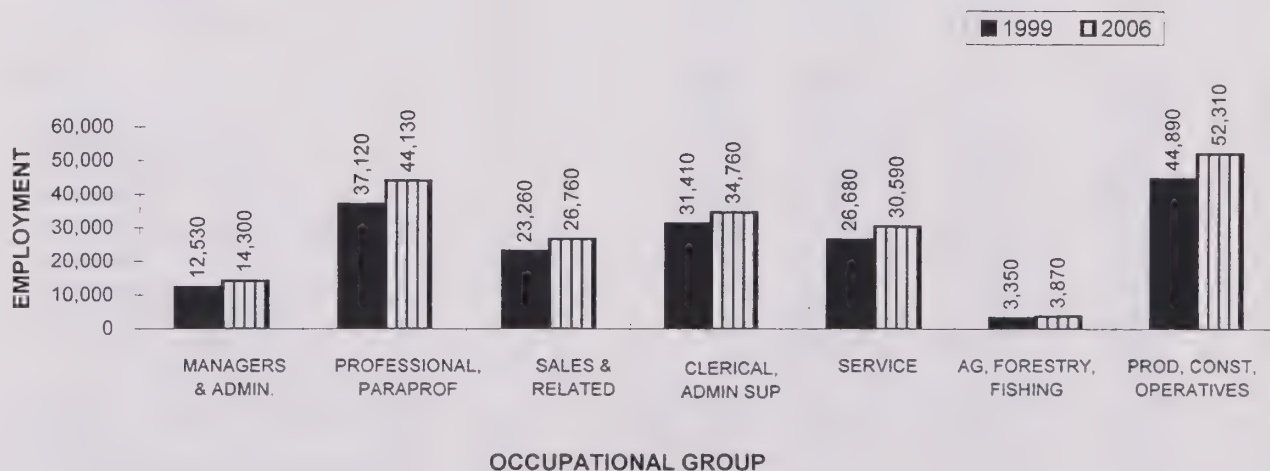
(2) March 2000 benchmark.

**Table 3**  
**Employment by Major Occupational Group**  
**1999 - 2006 Annual Averages**  
**SONOMA COUNTY**

OCCUPATIONAL GROUP	1999	PERCENT OF TOTAL	2006	PERCENT OF TOTAL	ABSOLUTE CHANGE	PERCENT CHANGE
TOTAL, ALL OCCUPATIONS (1)	179,300	100.0%	206,800	100.0%	27,500	15.3%
MANAGERS AND ADMIN OCCUPATIONS	12,530	7.0%	14,300	6.9%	1,770	14.1%
PROFESSIONAL, PARAPROF, TECHNICAL	37,120	20.7%	44,130	21.3%	7,010	18.9%
SALES AND RELATED OCCUPATIONS	23,260	13.0%	26,760	12.9%	3,500	15.0%
CLERICAL, ADMINISTRATIVE SUPPORT	31,410	17.5%	34,760	16.8%	3,350	10.7%
SERVICE OCCUPATIONS	26,680	14.9%	30,590	14.8%	3,910	14.7%
AGRICULTURAL, FORESTRY, FISHING	3,350	1.9%	3,870	1.9%	520	15.5%
PROD, CONST, OPER, MAT HANDLING	44,890	25.0%	52,310	25.3%	7,420	16.5%

(1) Total is based on the March 2000 benchmark.

**Occupational Chart**  
**Employment by Major Occupational Group**  
**SONOMA COUNTY 1999 - 2006**



**Table 4**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
49023	CASHIERS	4,920	5,780	860	17.5	11	SHORT-TERM ON-THE-JOB TRAINING
49011	SALESPERSONS, RETAIL	6,610	7,460	850	12.9	11	SHORT-TERM ON-THE-JOB TRAINING
19005	GENERAL MANAGERS, TOP EXECUTIVES	5,170	5,920	750	14.5	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
55347	GENERAL OFFICE CLERKS	4,360	5,040	680	15.6	11	SHORT-TERM ON-THE-JOB TRAINING
31521	TEACHER AIDES, PARAPROFESSIONAL	1,960	2,490	530	27.0	06	ASSOCIATE DEGREE
87102	CARPENTERS	2,120	2,530	410	19.3	09	LONG-TERM ON-THE-JOB TRAINING
97105	TRUCK DRIVERS, LIGHT	2,090	2,490	400	19.1	11	SHORT-TERM ON-THE-JOB TRAINING
65008	WAITERS AND WAITRESSES	3,000	3,390	390	13.0	11	SHORT-TERM ON-THE-JOB TRAINING
98902	HAND PACKERS AND PACKAGERS	1,200	1,570	370	30.8	11	SHORT-TERM ON-THE-JOB TRAINING
79041	LABORERS, LANDSCAPING/GRNDSKEEPING	2,370	2,730	360	15.2	11	SHORT-TERM ON-THE-JOB TRAINING
31305	TEACHERS--ELEMENTARY SCHOOL	2,850	3,170	320	11.2	05	BACHELOR'S DEGREE
67005	JANITORS, CLEANERS--EXCEPT MAIDS	2,150	2,470	320	14.9	11	SHORT-TERM ON-THE-JOB TRAINING
97102	TRUCK DRIVERS, HEAVY	1,720	2,040	320	18.6	11	SHORT-TERM ON-THE-JOB TRAINING
32502	REGISTERED NURSES	2,420	2,730	310	12.8	06	ASSOCIATE DEGREE
65041	COMBINED FOOD PREP AND SERVICE	2,300	2,610	310	13.5	11	SHORT-TERM ON-THE-JOB TRAINING
49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	1,740	2,040	300	17.2	10	MODERATE-TERM ON-THE-JOB TRAINING
93956	ASSEMB, FABRICATORS--EX MACH,ELECTRIC	2,050	2,320	270	13.2	11	SHORT-TERM ON-THE-JOB TRAINING
55305	RECEPTIONISTS, INFORMATION CLERKS	2,140	2,380	240	11.2	11	SHORT-TERM ON-THE-JOB TRAINING
65038	FOOD PREPARATION WORKERS	2,110	2,340	230	10.9	11	SHORT-TERM ON-THE-JOB TRAINING
25104	COMPUTER SUPPORT SPECIALISTS	390	610	220	56.4	05	BACHELOR'S DEGREE
58028	TRAFFIC, SHIPPING, RECEIVING CLERKS	1,780	2,000	220	12.4	11	SHORT-TERM ON-THE-JOB TRAINING
58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	1,290	1,500	210	16.3	11	SHORT-TERM ON-THE-JOB TRAINING
65026	COOKS--RESTAURANT	1,230	1,440	210	17.1	09	LONG-TERM ON-THE-JOB TRAINING
32102	PHYSICIANS AND SURGEONS	1,160	1,340	180	15.5	01	FIRST PROFESSIONAL DEGREE
49017	COUNTER AND RENTAL CLERKS	880	1,060	180	20.5	11	SHORT-TERM ON-THE-JOB TRAINING
66011	HOME HEALTH CARE WORKERS	690	870	180	26.1	11	SHORT-TERM ON-THE-JOB TRAINING
87202	ELECTRICIANS	810	990	180	22.2	09	LONG-TERM ON-THE-JOB TRAINING
31308	TEACHERS--SECONDARY SCHOOL	850	1,020	170	20.0	05	BACHELOR'S DEGREE
63017	CORRECTION OFFICERS, JAILERS	470	640	170	36.2	09	LONG-TERM ON-THE-JOB TRAINING
81008	FIRST-LINE SUP/MGR-PRODUCTION	940	1,110	170	18.1	08	WORK EXPERIENCE



**Table 4**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
31311	TEACHERS--SPECIAL EDUCATION	620	780	160	25.8	05	BACHELOR'S DEGREE
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	940	1,100	160	17.0	11	SHORT-TERM ON-THE-JOB TRAINING
57305	POSTAL MAIL CARRIERS	530	690	160	30.2	11	SHORT-TERM ON-THE-JOB TRAINING
66005	MEDICAL ASSISTANTS	550	710	160	29.1	10	MODERATE-TERM ON-THE-JOB TRAINING
63047	GUARDS AND WATCH GUARDS	720	870	150	20.8	11	SHORT-TERM ON-THE-JOB TRAINING
66008	NURSE AIDES, ORDERLIES, ATTENDANTS	1,130	1,280	150	13.3	11	SHORT-TERM ON-THE-JOB TRAINING
13011	MKTNG, ADV, PUB-REL MANAGERS	800	940	140	17.5	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
63014	POLICE PATROL OFFICERS	560	700	140	25.0	09	LONG-TERM ON-THE-JOB TRAINING
85132	MAINT REPAIRERS, GENL UTILITY	1,720	1,850	130	7.6	09	LONG-TERM ON-THE-JOB TRAINING
85302	AUTOMOTIVE MECHANICS	1,100	1,230	130	11.8	09	LONG-TERM ON-THE-JOB TRAINING
89108	MACHINISTS	730	860	130	17.8	09	LONG-TERM ON-THE-JOB TRAINING
13002	FINANCIAL MANAGERS	1,020	1,140	120	11.8	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
25102	SYSTEMS ANALYSTS--ELEC DATA PROC	210	330	120	57.1	05	BACHELOR'S DEGREE
55338	BOOKKEEPING, ACCOUNTING CLERKS	3,480	3,600	120	3.4	10	MODERATE-TERM ON-THE-JOB TRAINING
66002	DENTAL ASSISTANTS	500	620	120	24.0	10	MODERATE-TERM ON-THE-JOB TRAINING
87402	PAINTERS, PAPERHANGERS--CONST	520	640	120	23.1	10	MODERATE-TERM ON-THE-JOB TRAINING
21114	ACCOUNTANTS AND AUDITORS	1,000	1,110	110	11.0	05	BACHELOR'S DEGREE
25105	COMPUTER PROGRAMMERS	720	830	110	15.3	05	BACHELOR'S DEGREE
31303	TEACHERS, PRESCHOOL	820	930	110	13.4	05	BACHELOR'S DEGREE
31321	INSTRUCTORS AND COACHES--SPORTS	700	810	110	15.7	10	MODERATE-TERM ON-THE-JOB TRAINING
TOTAL OF THESE OCCUPATIONS		82,140	95,100	12,960	15.8		

(1) Excludes not elsewhere classified (NEC) categories

(2) March 2000 Benchmark

**Table 5**  
**Occupations With The Fastest Job Growth (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
25102	SYSTEMS ANALYSTS--ELEC DATA PROC	210	330	120	57.1	05	BACHELOR'S DEGREE
25104	COMPUTER SUPPORT SPECIALISTS	390	610	220	56.4	05	BACHELOR'S DEGREE
22127	COMPUTER ENGINEERS	220	310	90	40.9	05	BACHELOR'S DEGREE
27308	HUMAN SERVICES WORKERS	150	210	60	40.0	10	MODERATE-TERM ON-THE-JOB TRAINING
63017	CORRECTION OFFICERS, JAILERS	470	640	170	36.2	09	LONG-TERM ON-THE-JOB TRAINING
32314	SPEECH PATHOLOGISTS, AUDIOLOGISTS	270	360	90	33.3	03	MASTER'S DEGREE
31242	BUSINESS TEACHERS, POSTSECONDARY	150	200	50	33.3	02	DOCTORAL DEGREE
49034	DEMONSTRATORS AND PROMOTERS	250	330	80	32.0	10	MODERATE-TERM ON-THE-JOB TRAINING
43017	SALES AGENTS--SEL BUS SERVICES	220	290	70	31.8	10	MODERATE-TERM ON-THE-JOB TRAINING
98902	HAND PACKERS AND PACKAGERS	1,200	1,570	370	30.8	11	SHORT-TERM ON-THE-JOB TRAINING
92543	PRINTING PRESS MACHINE OPS, TENDERS	230	300	70	30.4	10	MODERATE-TERM ON-THE-JOB TRAINING
57305	POSTAL MAIL CARRIERS	530	690	160	30.2	11	SHORT-TERM ON-THE-JOB TRAINING
13017	ENGINEER, MATH, AND NAT SCI MGRS	340	440	100	29.4	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
43023	SALES AGENTS--ADVERTISING	170	220	50	29.4	10	MODERATE-TERM ON-THE-JOB TRAINING
57308	POSTAL SERVICE CLERKS	170	220	50	29.4	11	SHORT-TERM ON-THE-JOB TRAINING
89808	FOOD BATCHMAKERS	240	310	70	29.2	09	LONG-TERM ON-THE-JOB TRAINING
66005	MEDICAL ASSISTANTS	550	710	160	29.1	10	MODERATE-TERM ON-THE-JOB TRAINING
63032	SHERIFFS AND DEPUTY SHERIFFS	310	400	90	29.0	09	LONG-TERM ON-THE-JOB TRAINING
53123	ADJUSTMENT CLERKS	390	500	110	28.2	11	SHORT-TERM ON-THE-JOB TRAINING
31521	TEACHER AIDES, PARAPROFESSIONAL	1,960	2,490	530	27.0	06	ASSOCIATE DEGREE
53508	BILL AND ACCOUNT COLLECTORS	370	470	100	27.0	11	SHORT-TERM ON-THE-JOB TRAINING
89132	SHEET METAL WORKERS	260	330	70	26.9	10	MODERATE-TERM ON-THE-JOB TRAINING
66011	HOME HEALTH CARE WORKERS	690	870	180	26.1	11	SHORT-TERM ON-THE-JOB TRAINING
31311	TEACHERS--SPECIAL EDUCATION	620	780	160	25.8	05	BACHELOR'S DEGREE
49026	TELEMARKETERS, SOLICITORS & RELATED	310	390	80	25.8	11	SHORT-TERM ON-THE-JOB TRAINING
63014	POLICE PATROL OFFICERS	560	700	140	25.0	09	LONG-TERM ON-THE-JOB TRAINING
65011	FOOD SERVERS--OUTSIDE	160	200	40	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
93947	PAINTING, COATING, DECORATING--HAN	160	200	40	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
81005	FIRST-LINE SUP/MGR-CONSTRUCTION	410	510	100	24.4	08	WORK EXPERIENCE
66002	DENTAL ASSISTANTS	500	620	120	24.0	10	MODERATE-TERM ON-THE-JOB TRAINING



**Table 5**  
**Occupations With The Fastest Job Growth (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
98312	HELPERS--CARPENTERS AND RELATED	250	310	60	24.0	11	SHORT-TERM ON-THE-JOB TRAINING
85902	HEATING, AC, REFRIG MECHANICS	210	260	50	23.8	09	LONG-TERM ON-THE-JOB TRAINING
97956	OPERATING ENGINEERS	430	530	100	23.3	10	MODERATE-TERM ON-THE-JOB TRAINING
87402	PAINTERS, PAPERHANGERS--CONST	520	640	120	23.1	10	MODERATE-TERM ON-THE-JOB TRAINING
15017	CONSTRUCTION MANAGERS	350	430	80	22.9	05	BACHELOR'S DEGREE
87202	ELECTRICIANS	810	990	180	22.2	09	LONG-TERM ON-THE-JOB TRAINING
21902	COST ESTIMATORS	270	330	60	22.2	08	WORK EXPERIENCE
31514	VOCATIONAL & EDUCATIONAL COUNSELOR	180	220	40	22.2	03	MASTER'S DEGREE
87111	TAPERS	180	220	40	22.2	10	MODERATE-TERM ON-THE-JOB TRAINING
92721	SEWING MACHINE OPS--NON-GARMENT	180	220	40	22.2	10	MODERATE-TERM ON-THE-JOB TRAINING
32908	DENTAL HYGIENISTS	460	560	100	21.7	06	ASSOCIATE DEGREE
87108	DRYWALL INSTALLERS	370	450	80	21.6	10	MODERATE-TERM ON-THE-JOB TRAINING
85110	MACHINERY MAINTENANCE MECHANICS	330	400	70	21.2	09	LONG-TERM ON-THE-JOB TRAINING
63047	GUARDS AND WATCH GUARDS	720	870	150	20.8	11	SHORT-TERM ON-THE-JOB TRAINING
55335	CUSTOMER SERVICE REPS--UTILITIES	240	290	50	20.8	11	SHORT-TERM ON-THE-JOB TRAINING
97923	EXCAVATING, LOADING MACHINE OPS	290	350	60	20.7	10	MODERATE-TERM ON-THE-JOB TRAINING
49017	COUNTER AND RENTAL CLERKS	880	1,060	180	20.5	11	SHORT-TERM ON-THE-JOB TRAINING
27302	SOCIAL WORKERS--MED, PSYCHIATRIC	440	530	90	20.5	03	MASTER'S DEGREE
31308	TEACHERS--SECONDARY SCHOOL	850	1,020	170	20.0	05	BACHELOR'S DEGREE
89917	OPTICAL GOODS WORKERS, PRECISION	350	420	70	20.0	09	LONG-TERM ON-THE-JOB TRAINING
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>20,770</b>	<b>26,300</b>	<b>5,530</b>	<b>26.6</b>		

(1) Excludes not elsewhere classified (NEC) categories and occupations of less than 200 in 2006.

(2) March 2000 Benchmark



**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2,006					
1		TOTAL, ALL OCCUPATIONS	179,300	206,800	27,500	15.3	32,950		
2	10000	MGRS AND ADMIN OCCUPATIONS	12,530	14,300	1,770	14.1	1,650		
3	13002	FINANCIAL MANAGERS	1,020	1,140	120	11.8	120	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
4	13005	PERS, TRAINING, LABOR-REL MGRS	300	350	50	16.7	50	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
5	13008	PURCHASING MANAGERS	320	350	30	9.4	50	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
6	13011	MKTING, ADV, PUB-REL MANAGERS	800	940	140	17.5	80	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
7	13014	ADMINISTRATIVE SERVICES MANAGERS	520	570	50	9.6	70	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
8	13017	ENGINEER, MATH, AND NAT SCI MGRS	340	440	100	29.4	50	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
10	15005	EDUCATION ADMINISTRATORS	670	760	90	13.4	120	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
11	15008	MEDICINE, HEALTH SERVICES MGRS	250	300	50	20.0	30	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
12	15011	PROPERTY AND REAL ESTATE MANAGERS	210	230	20	9.5	20	05	BACHELOR'S DEGREE
13	15014	INDUSTRIAL PRODUCTION MANAGERS	370	420	50	13.5	50	05	BACHELOR'S DEGREE
14	15017	CONSTRUCTION MANAGERS	350	430	80	22.9	50	05	BACHELOR'S DEGREE
16	15023	COMM, TRANS, UTIL OPER MGRS	160	180	20	12.5	20	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
17	15026	FOOD SERVICE AND LODGING MANAGERS	600	680	80	13.3	80	08	WORK EXPERIENCE
20	19002	PUB ADMIN CHIEF EXECS, LEGISLATORS	120	130	10	8.3	20	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
21	19005	GENERAL MANAGERS, TOP EXECUTIVES	5,170	5,920	750	14.5	670	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
22	19999	MANAGERS AND ADMINISTRATORS, NEC	1,330	1,460	130	9.8	170	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
23	20000	PROFESSIONAL, PARAPROF, TECHNICAL	37,120	44,130	7,010	18.9	5,490		
24	21000	MANAGEMENT SUPPORT OCCUPATIONS	4,110	4,670	560	13.6	620		
25	21100	ACCOUNTANTS, AUDIT, FINANCE SPECS	2,120	2,330	210	9.9	300		
26	21102	UNDERWRITERS	230	220	-10	-4.3	50	05	BACHELOR'S DEGREE
28	21108	LOAN OFFICERS AND COUNSELORS	580	650	70	12.1	90	05	BACHELOR'S DEGREE
30	21114	ACCOUNTANTS AND AUDITORS	1,000	1,110	110	11.0	110	05	BACHELOR'S DEGREE

**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2,006					
32	21199	FINANCIAL SPECIALISTS, NEC	310	350	40	12.9	50	05	BACHELOR'S DEGREE
33	21300	PURCHASING AGENTS AND BUYERS	430	500	70	16.3	80		
34	21302	WHLE AND RET BUYERS--EX FARM PRODS	120	130	10	8.3	20	05	BACHELOR'S DEGREE
36	21308	PURCH AGTS--EX WHLE,RET,FARM PRODS	310	370	60	19.4	60	05	BACHELOR'S DEGREE
37	21500	PERS, TRAINING, LAB-REL SPECS	330	400	70	21.2	70		
41	21511	PERS, TRAINING, LAB-REL SPECS, NEC	330	400	70	21.2	70	05	BACHELOR'S DEGREE
42	21900	OTHER MANAGEMENT SUPPORT WORKERS	1,230	1,440	210	17.1	170		
43	21902	COST ESTIMATORS	270	330	60	22.2	30	08	WORK EXPERIENCE
46	21911	COMPL, ENFORCE INSPECT--EX CONST	200	230	30	15.0	30	08	WORK EXPERIENCE
50	21999	MANAGEMENT SUPPORT WORKERS, NEC	760	880	120	15.8	110	05	BACHELOR'S DEGREE
51	22000	ENGINEERS, ARCHITECTS, SURVEYORS	3,380	3,980	600	17.8	550		
52	22100	ENGINEERS	1,670	2,030	360	21.6	260		
59	22121	CIVIL ENGINEERS--INCLUDING TRAFFIC	180	210	30	16.7	30	05	BACHELOR'S DEGREE
61	22126	ELECT AND ELECTRONIC ENGINEERS	550	640	90	16.4	90	05	BACHELOR'S DEGREE
62	22127	COMPUTER ENGINEERS	220	310	90	40.9	10	05	BACHELOR'S DEGREE
65	22135	MECHANICAL ENGINEERS	300	360	60	20.0	40	05	BACHELOR'S DEGREE
67	22199	ENGINEERS, NEC	420	510	90	21.4	90	05	BACHELOR'S DEGREE
68	22300	ARCHITECTS AND SURVEYORS	150	170	20	13.3	20		
69	22302	ARCHITECTS--EX LANDSCAPE, MARINE	150	170	20	13.3	20	05	BACHELOR'S DEGREE
73	22500	ENGINEERING, RELATED TECHNICIANS	1,560	1,780	220	14.1	270		
74	22502	CIVIL ENGINEERING TECHNICIANS	120	130	10	8.3	20	06	ASSOCIATE DEGREE
75	22505	ELECT, ELECTRONIC ENGINEERING TECH	540	610	70	13.0	80	06	ASSOCIATE DEGREE
78	22514	DRAFTERS	420	450	30	7.1	70	07	POST-SECONDARY VOCATIONAL EDUCATION
81	22599	ENGINEERING, RELATED TECHS, NEC	480	590	110	22.9	100	06	ASSOCIATE DEGREE

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			1999 (2)	2,006					
82	24000	NAT SCIENTISTS AND RELATED WORKERS	430	510	80	18.6	80		
83	24100	PHYSICAL SCIENTISTS	180	230	50	27.8	40		
88	24199	PHYSICAL SCIENTISTS, NEC	180	230	50	27.8	40	05	BACHELOR'S DEGREE
95	24500	PHYSICAL, LIFE SCIENCE TECHS	250	280	30	12.0	40		
96	24502	BIOLOGICAL, AGRI, FOOD TECHS	140	160	20	14.3	20	06	ASSOCIATE DEGREE
97	24505	CHEM TECHS--EXCEPT HEALTH	110	120	10	9.1	20	06	ASSOCIATE DEGREE
101	25000	COMPUTER, MATH, OPS RESRCH, RELATE	1,750	2,560	810	46.3	230		
102	25100	COMPUTER SCIENTISTS AND RELATED	1,750	2,560	810	46.3	230		
103	25102	SYSTEMS ANALYSTS--ELEC DATA PROC	210	330	120	57.1	10	05	BACHELOR'S DEGREE
105	25104	COMPUTER SUPPORT SPECIALISTS	390	610	220	56.4	20	05	BACHELOR'S DEGREE
106	25105	COMPUTER PROGRAMMERS	720	830	110	15.3	170	05	BACHELOR'S DEGREE
109	25199	COMPUTER SCIENTISTS, REL WRKRS, NEC	430	790	360	83.7	30	05	BACHELOR'S DEGREE
118	27000	SOCIAL SCI, RECREATION, RELIGIOUS	2,030	2,370	340	16.7	310		
119	27100	SOCIAL SCI--INCL URBAN, REG PLNERS	350	390	40	11.4	50		
122	27108	PSYCHOLOGISTS	350	390	40	11.4	50	03	MASTER'S DEGREE
124	27300	OTH SOCIAL SCIENCE RELATED WORKERS	1,680	1,980	300	17.9	260		
125	27302	SOCIAL WORKERS--MED, PSYCHIATRIC	440	530	90	20.5	40	03	MASTER'S DEGREE
126	27305	SOCIAL WKRS--EX MED, PSYCHIATRIC	220	250	30	13.6	20	05	BACHELOR'S DEGREE
127	27307	RESIDENTIAL COUNSELORS	180	210	30	16.7	30	05	BACHELOR'S DEGREE
128	27308	HUMAN SERVICES WORKERS	150	210	60	40.0	30	10	MODERATE-TERM ON-THE-JOB TRAINING
129	27311	RECREATION WORKERS	690	780	90	13.0	140	05	BACHELOR'S DEGREE



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			1999 (2)	2,006					
134	28000	LAW AND RELATED OCCUPATIONS	420	500	80	19.0	30		
135	28100	LAWYERS AND RELATED WORKERS	290	340	50	17.2	20		
138	28108	LAWYERS	290	340	50	17.2	20	01	FIRST PROFESSIONAL DEGREE
139	28300	LEGAL ASSTS, TECHS, EX CLERICAL	130	160	30	23.1	10		
144	28399	LEGAL ASSTS, TECHS--EX CLER, NEC	130	160	30	23.1	10	06	ASSOCIATE DEGREE
145	31000	TEACHERS, EDUCATORS, LIBRARIANS	10,910	12,920	2,010	18.4	1,520		
146	31100	POSTSECONDARY TEACHERS	960	1,240	280	29.2	210		
158	31214	ENGLISH LANG & LIT TEACHERS, POSTS	120	160	40	33.3	30	02	DOCTORAL DEGREE
163	31224	MATHEMATICAL SCIENCES TEACHERS, PO	120	150	30	25.0	30	02	DOCTORAL DEGREE
174	31242	BUSINESS TEACHERS, POSTSECONDARY	150	200	50	33.3	30	02	DOCTORAL DEGREE
178	31252	EDUCATION TEACHERS, POSTSECONDARY	140	180	40	28.6	30	02	DOCTORAL DEGREE
183	31299	POSTSECONDARY TEACHERS, NEC	430	550	120	27.9	90	02	DOCTORAL DEGREE
184	31300	OTHER TEACHERS AND INSTRUCTORS	7,700	8,840	1,140	14.8	1,090		
185	31303	TEACHERS, PRESCHOOL	820	930	110	13.4	130	05	BACHELOR'S DEGREE
186	31304	TEACHERS, KINDERGARTEN	330	370	40	12.1	50	05	BACHELOR'S DEGREE
187	31305	TEACHERS--ELEMENTARY SCHOOL	2,850	3,170	320	11.2	480	05	BACHELOR'S DEGREE
188	31308	TEACHERS--SECONDARY SCHOOL	850	1,020	170	20.0	210	05	BACHELOR'S DEGREE
189	31311	TEACHERS--SPECIAL EDUCATION	620	780	160	25.8	40	05	BACHELOR'S DEGREE
190	31314	TEACHERS--VOC ED AND TRAINING	500	560	60	12.0	40	08	WORK EXPERIENCE
191	31317	INSTRUCTORS--NON-VOC EDUCATION	240	270	30	12.5	20	08	WORK EXPERIENCE
192	31321	INSTRUCTORS AND COACHES--SPORTS	700	810	110	15.7	60	10	MODERATE-TERM ON-THE-JOB TRAINING
194	31399	TEACHERS AND INSTRUCTORS, NEC	790	930	140	17.7	60	03	MASTER'S DEGREE
195	31500	LIBRARIANS, ARCHIVISTS AND RELATED	2,250	2,840	590	26.2	220		
200	31514	VOCATIONAL & EDUCATIONAL COUNSELOR	180	220	40	22.2	30	03	MASTER'S DEGREE

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			1999 (2)	2,006					
201	31517	INSTRUCTIONAL COORDINATORS	110	130	20	18.2	10	05	BACHELOR'S DEGREE
202	31521	TEACHER AIDES, PARAPROFESSIONAL	1,960	2,490	530	27.0	180	06	ASSOCIATE DEGREE
203	32000	HEALTH PRACTITIONERS, TECHS, RELAT	8,670	10,130	1,460	16.8	1,250		
204	32100	HEALTH DIAGNOSING, TREATING	1,400	1,610	210	15.0	170		
205	32102	PHYSICIANS AND SURGEONS	1,160	1,340	180	15.5	130	01	FIRST PROFESSIONAL DEGREE
206	32105	DENTISTS	140	150	10	7.1	20	01	FIRST PROFESSIONAL DEGREE
210	32114	VETS AND VETERINARY INSPECTORS	100	120	20	20.0	20	01	FIRST PROFESSIONAL DEGREE
212	32300	THERAPISTS	550	700	150	27.3	70		
213	32302	RESPIRATORY CARE PRACTITIONERS	120	160	40	33.3	20	06	ASSOCIATE DEGREE
215	32308	PHYSICAL THERAPISTS	160	180	20	12.5	20	05	BACHELOR'S DEGREE
217	32314	SPEECH PATHOLOGISTS, AUDIOLOGISTS	270	360	90	33.3	30	03	MASTER'S DEGREE
220	32500	HEALTH CARE MAINTENANCE, TREATING	3,560	4,030	470	13.2	490		
221	32502	REGISTERED NURSES	2,420	2,730	310	12.8	290	06	ASSOCIATE DEGREE
222	32505	LICENSED VOCATIONAL NURSES	510	560	50	9.8	80	07	POST-SECONDARY VOCATIONAL EDUCATION
223	32508	EMERGENCY MEDICAL TECHNICIANS	170	200	30	17.6	30	07	POST-SECONDARY VOCATIONAL EDUCATION
226	32517	PHARMACISTS	230	260	30	13.0	50	05	BACHELOR'S DEGREE
227	32518	PHARMACY TECHNICIANS	120	150	30	25.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
228	32521	DIETITIANS AND NUTRITIONISTS	110	130	20	18.2	20	05	BACHELOR'S DEGREE
230	32900	OTHER HEALTH PROFS, PARAPROFS	3,160	3,790	630	19.9	520		
231	32902	MED, CLINICAL LAB TECHNOLOGISTS	200	210	10	5.0	20	05	BACHELOR'S DEGREE
232	32905	MED, CLINICAL LAB ASSISTANTS	130	150	20	15.4	10	06	ASSOCIATE DEGREE
233	32908	DENTAL HYGIENISTS	460	560	100	21.7	80	06	ASSOCIATE DEGREE
234	32911	MEDICAL RECORDS TECHNICIANS	110	140	30	27.3	20	06	ASSOCIATE DEGREE
237	32919	RADIOLOGIC TECHNOLOGISTS	220	250	30	13.6	20	06	ASSOCIATE DEGREE
242	32931	PSYCHIATRIC TECHNICIANS	260	270	10	3.8	30	06	ASSOCIATE DEGREE
243	32951	VETERINARY TECHNICIANS	180	200	20	11.1	30	06	ASSOCIATE DEGREE
244	32999	HEALTH CARE PROFS, PARAPROFS, NEC	1,600	2,010	410	25.6	310	06	ASSOCIATE DEGREE

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			1999 (2)	2,006					
245	34000	WRITERS, ARTISTS, ENTER, ATHLETES	580	690	110	19.0	80		
246	34002	WRITERS AND EDITORS	150	190	40	26.7	30	05	BACHELOR'S DEGREE
258	34038	DESIGNERS, EX INTERIOR DESIGNERS	310	370	60	19.4	30	05	BACHELOR'S DEGREE
262	34051	MUSICIANS--INSTRUMENTAL	120	130	10	8.3	20	09	LONG-TERM ON-THE-JOB TRAINING
266	39000	MISC PROFS, PARAPROFS, TECHNICAL	4,840	5,800	960	19.8	820		
272	39999	OTHER PROF, PARAPROF, TECHNICAL	4,840	5,800	960	19.8	820	05	BACHELOR'S DEGREE
273	40000	SALES AND RELATED OCCUPATIONS	23,260	26,760	3,500	15.0	5,380		
274	41000	FIRST-LINE SUP/MGR--SALES	2,980	3,460	480	16.1	290	08	WORK EXPERIENCE
275	43000	SALES AGENTS--SERVICE	1,340	1,580	240	17.9	250		
276	43002	SALES AGENTS, PLACERS--INSURANCE	210	220	10	4.8	30	09	LONG-TERM ON-THE-JOB TRAINING
280	43014	SALES AGENTS--FINANCIAL SERVICES	270	320	50	18.5	20	09	LONG-TERM ON-THE-JOB TRAINING
281	43017	SALES AGENTS--SEL BUS SERVICES	220	290	70	31.8	40	10	MODERATE-TERM ON-THE-JOB TRAINING
282	43021	TRAVEL AGENTS	120	130	10	8.3	20	07	POST-SECONDARY VOCATIONAL EDUCATION
283	43023	SALES AGENTS--ADVERTISING	170	220	50	29.4	40	10	MODERATE-TERM ON-THE-JOB TRAINING
284	43099	SALES REPS, SERVICE--NEC	350	400	50	14.3	100	10	MODERATE-TERM ON-THE-JOB TRAINING
285	49000	MERCH, PRODUCTS AND OTHER SALES	18,940	21,720	2,780	14.7	4,840		
286	49002	SALES ENGINEERS	140	160	20	14.3	20	05	BACHELOR'S DEGREE
287	49005	SALES REPS, SCIENTIFIC--EX RETAIL	520	600	80	15.4	100	10	MODERATE-TERM ON-THE-JOB TRAINING
288	49008	SALES REPS, NON-SCIENTIFIC EX RET	1,740	2,040	300	17.2	320	10	MODERATE-TERM ON-THE-JOB TRAINING
289	49011	SALESPERSONS, RETAIL	6,610	7,460	850	12.9	1,700	11	SHORT-TERM ON-THE-JOB TRAINING
290	49014	SALESPERSONS--PARTS	570	590	20	3.5	120	10	MODERATE-TERM ON-THE-JOB TRAINING



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			1999 (2)	2,006					
291	49017	COUNTER AND RENTAL CLERKS	880	1,060	180	20.5	300	11	SHORT-TERM ON-THE-JOB TRAINING
292	49021	STOCK CLERKS--SALES FLOOR	1,950	2,050	100	5.1	210	11	SHORT-TERM ON-THE-JOB TRAINING
293	49023	CASHIERS	4,920	5,780	860	17.5	1,700	11	SHORT-TERM ON-THE-JOB TRAINING
294	49026	TELEMARKETERS, SOLICITORS & RELATE	310	390	80	25.8	60	11	SHORT-TERM ON-THE-JOB TRAINING
295	49034	DEMONSTRATORS AND PROMOTERS	250	330	80	32.0	60	10	MODERATE-TERM ON-THE-JOB TRAINING
297	49999	SALES AND RELATED WORKERS, NEC	1,050	1,260	210	20.0	250	10	MODERATE-TERM ON-THE-JOB TRAINING
298	50000	CLERICAL, ADMINISTRATIVE SUPPORT	31,410	34,760	3,350	10.7	4,860		
299	51000	FIRST-LINE SUP/MGR, CLERL, ADM SUP	2,360	2,720	360	15.3	400	08	WORK EXPERIENCE
300	53000	INDUSTRY SPECIFIC CLERICAL, ADMIN	4,390	4,930	540	12.3	740		
301	53100	BANKING, SECURITY, FINANCE, CREDIT	1,930	2,120	190	9.8	410		
302	53102	TELLERS	990	1,010	20	2.0	310	11	SHORT-TERM ON-THE-JOB TRAINING
303	53105	NEW ACCOUNTS CLERKS	230	270	40	17.4	60	08	WORK EXPERIENCE
308	53121	LOAN AND CREDIT CLERKS	320	340	20	6.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
309	53123	ADJUSTMENT CLERKS	390	500	110	28.2	20	11	SHORT-TERM ON-THE-JOB TRAINING
312	53300	INSURANCE WORKERS	830	900	70	8.4	90		
313	53302	INS ADJUST, EXAMIN, INVESTIGATORS	290	330	40	13.8	40	09	LONG-TERM ON-THE-JOB TRAINING
316	53311	INSURANCE CLAIMS CLERKS	180	200	20	11.1	20	10	MODERATE-TERM ON-THE-JOB TRAINING
317	53314	INSURANCE POLICY PROCESSING CLERKS	360	370	10	2.8	30	10	MODERATE-TERM ON-THE-JOB TRAINING
318	53500	INVESTIGATIVE, RELATED, EX INSUR	490	590	100	20.4	100		
319	53502	WELFARE ELIG WORKERS, INTERVIEWERS	120	120	0	0.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
321	53508	BILL AND ACCOUNT COLLECTORS	370	470	100	27.0	80	11	SHORT-TERM ON-THE-JOB TRAINING
326	53800	LODGING AND TRAVEL WORKERS	200	220	20	10.0	60		
329	53808	HOTEL DESK CLERKS	200	220	20	10.0	60	11	SHORT-TERM ON-THE-JOB TRAINING

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			1999 (2)	2,006					
330	53900	MISC INDUSTRY SPECIFIC CLERICAL	940	1,100	160	17.0	80		
332	53905	TEACHER AIDES & EDUC ASSTS, CLERIC	940	1,100	160	17.0	80	11	SHORT-TERM ON-THE-JOB TRAINING
336	55000	SECRETARIAL, GENERAL OFFICE OCCS	16,950	18,310	1,360	8.0	2,660		
337	55100	SECRETARIES	3,940	4,090	150	3.8	450		
338	55102	SECRETARIES, LEGAL	400	430	30	7.5	50	07	POST-SECONDARY VOCATIONAL EDUCATION
339	55105	SECRETARIES, MEDICAL	210	220	10	4.8	20	07	POST-SECONDARY VOCATIONAL EDUCATION
340	55108	SECRETARIES, GENERAL	3,330	3,440	110	3.3	380	07	POST-SECONDARY VOCATIONAL EDUCATION
341	55300	MISC SECRETARIAL, GENL OFF OCCS	13,010	14,220	1,210	9.3	2,210		
343	55305	RECEPTIONISTS, INFORMATION CLERKS	2,140	2,380	240	11.2	310	11	SHORT-TERM ON-THE-JOB TRAINING
344	55307	TYPISTS, INCLUDING WORD PROCESSING	610	540	-70	-11.5	80	10	MODERATE-TERM ON-THE-JOB TRAINING
345	55314	PERS CLERKS--EX PAYROLL	140	140	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
347	55321	FILE CLERKS	400	420	20	5.0	100	11	SHORT-TERM ON-THE-JOB TRAINING
348	55323	ORDER CLERKS--MATERIALS, SERVICE	690	770	80	11.6	120	11	SHORT-TERM ON-THE-JOB TRAINING
351	55332	INTERVIEW CLERKS--EX PERS, WELFARE	100	120	20	20.0	30	11	SHORT-TERM ON-THE-JOB TRAINING
352	55335	CUSTOMER SERVICE REPS--UTILITIES	240	290	50	20.8	40	11	SHORT-TERM ON-THE-JOB TRAINING
353	55338	BOOKKEEPING, ACCOUNTING CLERKS	3,480	3,600	120	3.4	460	10	MODERATE-TERM ON-THE-JOB TRAINING
354	55341	PAYROLL AND TIMEKEEPING CLERKS	320	330	10	3.1	50	11	SHORT-TERM ON-THE-JOB TRAINING
355	55344	BILLING, COST, AND RATE CLERKS	530	590	60	11.3	80	11	SHORT-TERM ON-THE-JOB TRAINING
356	55347	GENERAL OFFICE CLERKS	4,360	5,040	680	15.6	920	11	SHORT-TERM ON-THE-JOB TRAINING
357	56000	EDP AND OFFICE MACHINE OCCUPATIONS	560	580	20	3.6	40		
361	56011	COMPUTER OPS--EX PERIPHERAL EQUIP	180	160	-20	-11.1	20	10	MODERATE-TERM ON-THE-JOB TRAINING
363	56017	DATA ENTRY KEYERS--EX COMPOSING	380	420	40	10.5	20	07	POST-SECONDARY VOCATIONAL EDUCATION
366	57000	COMMUNICATIONS, MAIL DISTRIBUTION	1,010	1,230	220	21.8	200		

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			1999 (2)	2,006					
367	57100	COMMUNICATION EQUIPMENT OPERATORS	170	160	-10	-5.9	30		
368	57102	SWITCHBOARD OPERATORS	170	160	-10	-5.9	30	11	SHORT-TERM ON-THE-JOB TRAINING
373	57300	MAIL, MESSAGE DISTRIBUTION WORKERS	840	1,070	230	27.4	170		
374	57302	MAIL CLKS-EX MAIL MACH OPS, POSTAL	140	160	20	14.3	30	11	SHORT-TERM ON-THE-JOB TRAINING
375	57305	POSTAL MAIL CARRIERS	530	690	160	30.2	120	11	SHORT-TERM ON-THE-JOB TRAINING
376	57308	POSTAL SERVICE CLERKS	170	220	50	29.4	20	11	SHORT-TERM ON-THE-JOB TRAINING
378	58000	MATERIAL RECORDING, DISPATCHING	4,290	4,860	570	13.3	530		
379	58002	DISPATCH--POLICE, FIRE, AMBULANCE	180	200	20	11.1	20	10	MODERATE-TERM ON-THE-JOB TRAINING
380	58005	DISPATCH-EX POLICE, FIRE, AMBUL	280	320	40	14.3	30	10	MODERATE-TERM ON-THE-JOB TRAINING
381	58008	PROD, PLANNING, EXPEDITING CLERKS	300	330	30	10.0	30	11	SHORT-TERM ON-THE-JOB TRAINING
386	58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	1,290	1,500	210	16.3	150	11	SHORT-TERM ON-THE-JOB TRAINING
387	58026	ORDER FILLERS--WHLE & RET SALES	290	320	30	10.3	50	11	SHORT-TERM ON-THE-JOB TRAINING
388	58028	TRAFFIC, SHIPPING, RECEIVING CLKS	1,780	2,000	220	12.4	220	11	SHORT-TERM ON-THE-JOB TRAINING
389	58099	MATERIAL RECORDING, RELATED, NEC	170	190	20	11.8	30	11	SHORT-TERM ON-THE-JOB TRAINING
390	59000	CLERICAL, ADMIN SUPPORT, NEC	1,850	2,130	280	15.1	290	11	SHORT-TERM ON-THE-JOB TRAINING
392	60000	SERVICE OCCUPATIONS	26,680	30,590	3,910	14.7	6,860		
393	61000	FIRST-LINE SUP/MGR--SERVICE	1,290	1,530	240	18.6	230		
395	61005	POLICE AND DETECTIVE SUPERVISORS	120	130	10	8.3	20	08	WORK EXPERIENCE
397	61099	FIRST-LINE SUP/MGR SERV WKRS, NEC	1,170	1,400	230	19.7	210	08	WORK EXPERIENCE
398	63000	PROTECTIVE SERVICE OCCUPATIONS	2,790	3,390	600	21.5	590		
401	63008	FIRE FIGHTERS	550	580	30	5.5	100	09	LONG-TERM ON-THE-JOB TRAINING



**Table 6**  
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LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2,006					
403	63014	POLICE PATROL OFFICERS	560	700	140	25.0	120	09	LONG-TERM ON-THE-JOB TRAINING
404	63017	CORRECTION OFFICERS, JAILERS	470	640	170	36.2	110	09	LONG-TERM ON-THE-JOB TRAINING
409	63032	SHERIFFS AND DEPUTY SHERIFFS	310	400	90	29.0	20	09	LONG-TERM ON-THE-JOB TRAINING
414	63047	GUARDS AND WATCH GUARDS	720	870	150	20.8	140	11	SHORT-TERM ON-THE-JOB TRAINING
415	63099	PROTECTIVE SERVICE WORKERS, NEC	180	200	20	11.1	100	11	SHORT-TERM ON-THE-JOB TRAINING
416	65000	FOOD, BEV PREP AND SERVICE OCCS	12,860	14,410	1,550	12.1	4,580		
417	65002	HOSTS, HOSTESSES--RESTAURANTS	340	400	60	17.6	80	11	SHORT-TERM ON-THE-JOB TRAINING
418	65005	BARTENDERS	470	480	10	2.1	140	11	SHORT-TERM ON-THE-JOB TRAINING
419	65008	WAITERS AND WAITRESSES	3,000	3,390	390	13.0	1,250	11	SHORT-TERM ON-THE-JOB TRAINING
420	65011	FOOD SERVERS--OUTSIDE	160	200	40	25.0	110	11	SHORT-TERM ON-THE-JOB TRAINING
421	65014	DINING RM ATTENDANTS, BAR HELPERS	540	570	30	5.6	130	11	SHORT-TERM ON-THE-JOB TRAINING
422	65017	COUNTER ATTENDANTS--FOOD	430	480	50	11.6	290	11	SHORT-TERM ON-THE-JOB TRAINING
423	65021	BAKERS--BREAD AND PASTRY	370	430	60	16.2	80	10	MODERATE-TERM ON-THE-JOB TRAINING
424	65023	BUTCHERS AND MEAT CUTTERS	370	370	0	0.0	60	09	LONG-TERM ON-THE-JOB TRAINING
425	65026	COOKS--RESTAURANT	1,230	1,440	210	17.1	250	09	LONG-TERM ON-THE-JOB TRAINING
426	65028	COOKS--INSTITUTION OR CAFETERIA	290	310	20	6.9	60	09	LONG-TERM ON-THE-JOB TRAINING
427	65032	COOKS--SPECIALTY FAST FOOD	660	770	110	16.7	140	11	SHORT-TERM ON-THE-JOB TRAINING
428	65035	COOKS--SHORT ORDER	140	170	30	21.4	30	11	SHORT-TERM ON-THE-JOB TRAINING
429	65038	FOOD PREPARATION WORKERS	2,110	2,340	230	10.9	870	11	SHORT-TERM ON-THE-JOB TRAINING
430	65041	COMBINED FOOD PREP AND SERVICE	2,300	2,610	310	13.5	960	11	SHORT-TERM ON-THE-JOB TRAINING
431	65099	FOOD SERVICE WORKERS, NEC	450	450	0	0.0	130	11	SHORT-TERM ON-THE-JOB TRAINING
432	66000	HEALTH SERVICE, RELATED OCCS	3,350	4,030	680	20.3	450		
433	66002	DENTAL ASSISTANTS	500	620	120	24.0	60	10	MODERATE-TERM ON-THE-JOB TRAINING
434	66005	MEDICAL ASSISTANTS	550	710	160	29.1	110	10	MODERATE-TERM ON-THE-JOB TRAINING
435	66008	NURSE AIDES, ORDERLIES, ATTENDANTS	1,130	1,280	150	13.3	120	11	SHORT-TERM ON-THE-JOB TRAINING
436	66011	HOME HEALTH CARE WORKERS	690	870	180	26.1	80	11	SHORT-TERM ON-THE-JOB TRAINING
437	66014	PSYCHIATRIC AIDES	130	150	20	15.4	10	11	SHORT-TERM ON-THE-JOB TRAINING
441	66026	PHARMACY AIDES	140	160	20	14.3	30	11	SHORT-TERM ON-THE-JOB TRAINING
442	66099	HEALTH SERVICE WORKERS, NEC	210	240	30	14.3	40	11	SHORT-TERM ON-THE-JOB TRAINING

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LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2,006					
443	67000	CLEANING, BLDING SERV EX PRIV HOUS	3,800	4,260	460	12.1	590		
444	67002	MAIDS AND HOUSEKEEPING CLEANERS	1,220	1,330	110	9.0	170	11	SHORT-TERM ON-THE-JOB TRAINING
445	67005	JANITORS, CLEANERS--EXCEPT MAIDS	2,150	2,470	320	14.9	350	11	SHORT-TERM ON-THE-JOB TRAINING
448	67099	CLEANING, BLDING SERV--EX PH, NEC	430	460	30	7.0	70	11	SHORT-TERM ON-THE-JOB TRAINING
449	68000	MISC PERSONAL SERVICE OCCUPATIONS	1,670	1,900	230	13.8	230		
451	68005	HAIRDRESSERS, HAIRSTYLISTS	500	550	50	10.0	100	07	POST-SECONDARY VOCATIONAL EDUCATION
454	68014	AMUSEMENT, RECREATION ATTENDANTS	180	200	20	11.1	30	11	SHORT-TERM ON-THE-JOB TRAINING
456	68021	USHERS, LOBBY ATTENDANTS	150	180	30	20.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
461	68035	PERSONAL AND HOME CARE AIDES	160	190	30	18.8	30	11	SHORT-TERM ON-THE-JOB TRAINING
462	68038	CHILD CARE WORKERS	680	780	100	14.7	50	11	SHORT-TERM ON-THE-JOB TRAINING
464	69000	MISC SERVICE WORKERS	920	1,070	150	16.3	190	08	WORK EXPERIENCE
466	70000	AGRICULTURAL, FORESTRY, FISHING	3,350	3,870	520	15.5	710		
467	72000	FIRST-LINE SUP/MGR--AG, FOR, FISH	140	150	10	7.1	20	08	WORK EXPERIENCE
475	79000	MISC AG, FORESTRY, FISHING	3,210	3,720	510	15.9	690		
481	79017	ANIMAL CARETAKERS--EXCEPT FARM	240	280	40	16.7	30	11	SHORT-TERM ON-THE-JOB TRAINING
483	79033	PRUNERS	190	210	20	10.5	40	11	SHORT-TERM ON-THE-JOB TRAINING
485	79041	LABORERS, LANDSCAPING/GROUNDSKEEPI	2,370	2,730	360	15.2	540	11	SHORT-TERM ON-THE-JOB TRAINING
489	79999	AG, FORESTRY, FISHING--NEC	410	500	90	22.0	80	11	SHORT-TERM ON-THE-JOB TRAINING
490	80000	PROD, CONST, OPER, MAT HANDLING	44,890	52,310	7,420	16.5	8,000		

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			1999 (2)	2,006					
491	81000	FIRST-LINE SUP/MGR-BLUE COLLAR	2,940	3,430	490	16.7	620		
492	81002	FIRST-LINE SUP/MGR-MECH, REPAIRERS	590	670	80	13.6	130	08	WORK EXPERIENCE
493	81005	FIRST-LINE SUP/MGR-CONSTRUCTION	410	510	100	24.4	90	08	WORK EXPERIENCE
494	81008	FIRST-LINE SUP/MGR-PRODUCTION	940	1,110	170	18.1	200	08	WORK EXPERIENCE
495	81011	FIRST-LINE SUP/MGR-TRANSPORTATION	230	260	30	13.0	40	08	WORK EXPERIENCE
496	81017	FIRST-LINE SUP/MGR-HELP, LABORERS	180	210	30	16.7	40	08	WORK EXPERIENCE
497	81099	FIRST-LINE SUP/MGR-BLUE COLLAR NEC	590	670	80	13.6	120	08	WORK EXPERIENCE
498	83000	INSPECTORS, RELATED OCCUPATIONS	830	890	60	7.2	130		
499	83002	INSPECTORS, TESTERS, & GRADERS, PRECI	230	250	20	8.7	30	08	WORK EXPERIENCE
500	83005	PROD INSPECTORS, TESTERS, & GRADER	600	640	40	6.7	100	08	WORK EXPERIENCE
503	85000	MECHANICS, INSTALLERS, REPAIRERS	5,270	5,970	700	13.3	900		
504	85100	MACHINERY AND RELATED MECHANICS	2,050	2,250	200	9.8	340		
505	85110	MACHINERY MAINTENANCE MECHANICS	330	400	70	21.2	60	09	LONG-TERM ON-THE-JOB TRAINING
515	85132	MAINT REPAIRERS, GENL UTILITY	1,720	1,850	130	7.6	280	09	LONG-TERM ON-THE-JOB TRAINING
516	85300	MOBILE EQUIP MECHANICS, REPAIRERS	1,890	2,150	260	13.8	350		
517	85302	AUTOMOTIVE MECHANICS	1,100	1,230	130	11.8	200	09	LONG-TERM ON-THE-JOB TRAINING
518	85305	AUTOMOTIVE BODY, RELATED REPAIRERS	270	290	20	7.4	60	09	LONG-TERM ON-THE-JOB TRAINING
520	85311	BUS AND TRUCK MECHANICS	410	480	70	17.1	70	09	LONG-TERM ON-THE-JOB TRAINING
521	85314	MOBILE HEAVY EQUIP MECH--EX ENGINE	110	150	40	36.4	20	09	LONG-TERM ON-THE-JOB TRAINING
535	85700	OTHER ELECTRICAL EQUIP MECHANICS	300	370	70	23.3	70		
536	85702	TELEPHONE, CABLE TV INSTALLERS	150	190	40	26.7	40	09	LONG-TERM ON-THE-JOB TRAINING
543	85723	ELECT POWERLINE INSTALLERS	150	180	30	20.0	30	09	LONG-TERM ON-THE-JOB TRAINING
547	85900	MISC MECH, INSTALLERS, REPAIRERS	1,030	1,200	170	16.5	140		



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			1999 (2)	2,006					
548	85902	HEATING, AC, REFRIG MECHANICS	210	260	50	23.8	30	09	LONG-TERM ON-THE-JOB TRAINING
562	85947	COIN, VENDING MACHINE SERVICERS	130	130	0	0.0	20	09	LONG-TERM ON-THE-JOB TRAINING
566	85999	MECHS, INSTALLERS, REPAIRERS, NEC	690	810	120	17.4	90	09	LONG-TERM ON-THE-JOB TRAINING
567	87000	CONSTRUCTION TRADES	5,760	6,910	1,150	20.0	1,010		
568	87100	CARPENTERS AND RELATED WORKERS	2,790	3,350	560	20.1	530		
569	87102	CARPENTERS	2,120	2,530	410	19.3	440	09	LONG-TERM ON-THE-JOB TRAINING
570	87105	CEILING TILE INSTALLERS	120	150	30	25.0	30	10	MODERATE-TERM ON-THE-JOB TRAINING
571	87108	DRYWALL INSTALLERS	370	450	80	21.6	40	10	MODERATE-TERM ON-THE-JOB TRAINING
572	87111	TAPERS	180	220	40	22.2	20	10	MODERATE-TERM ON-THE-JOB TRAINING
575	87200	ELECTRICIANS AND RELATED WORKERS	810	990	180	22.2	130		
576	87202	ELECTRICIANS	810	990	180	22.2	130	09	LONG-TERM ON-THE-JOB TRAINING
577	87300	MASONS AND RELATED WORKERS	460	540	80	17.4	60		
580	87308	HARD TILE SETTERS	130	160	30	23.1	30	09	LONG-TERM ON-THE-JOB TRAINING
581	87311	CONCRETE AND TERRAZZO FINISHERS	330	380	50	15.2	30	09	LONG-TERM ON-THE-JOB TRAINING
584	87400	PAINTERS AND RELATED WORKERS	520	640	120	23.1	100		
585	87402	PAINTERS, PAPERHANGERS--CONST	520	640	120	23.1	100	10	MODERATE-TERM ON-THE-JOB TRAINING
586	87500	PLUMBERS AND RELATED WORKERS	630	740	110	17.5	70		
587	87502	PLUMBERS, PIPEFITTERS, STEAMFITTER	450	530	80	17.8	40	09	LONG-TERM ON-THE-JOB TRAINING
589	87508	PIPELAYERS	180	210	30	16.7	30	10	MODERATE-TERM ON-THE-JOB TRAINING
595	87700	SELECTED ROAD, RAIL AND RELATED	150	180	30	20.0	30		
598	87708	PAVING, TAMPING-EQUIP OPERATORS	150	180	30	20.0	30	10	MODERATE-TERM ON-THE-JOB TRAINING
601	87800	CONSTRUCTION TRADES, NEC	400	470	70	17.5	90		
605	87808	ROOFERS	280	330	50	17.9	70	10	MODERATE-TERM ON-THE-JOB TRAINING
609	87899	CONSTRUCTION TRADES WORKERS, NEC	120	140	20	16.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING

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			1999 (2)	2,006					
625	89000	PRODUCTION OCCUPATIONS, PRECISION	4,570	5,440	870	19.0	750		
626	89100	METAL WORKERS, PRECISION	990	1,190	200	20.2	160		
629	89108	MACHINISTS	730	860	130	17.8	110	09	LONG-TERM ON-THE-JOB TRAINING
637	89132	SHEET METAL WORKERS	260	330	70	26.9	50	10	MODERATE-TERM ON-THE-JOB TRAINING
640	89300	WOODWORKERS, PRECISION	360	400	40	11.1	30		
644	89311	CABINETMAKERS AND BENCH CARPENTERS	360	400	40	11.1	30	09	LONG-TERM ON-THE-JOB TRAINING
670	89800	FOOD WORKERS, PRECISION	360	470	110	30.6	70		
672	89805	BAKERS--MANUFACTURING	120	160	40	33.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
673	89808	FOOD BATCHMAKERS	240	310	70	29.2	60	09	LONG-TERM ON-THE-JOB TRAINING
675	89900	OTHER PRECISION WORKERS	2,860	3,380	520	18.2	490		
681	89917	OPTICAL GOODS WORKERS, PRECISION	350	420	70	20.0	30	09	LONG-TERM ON-THE-JOB TRAINING
685	89999	WORKERS, PRECISION--NEC	2,510	2,960	450	17.9	460	09	LONG-TERM ON-THE-JOB TRAINING
686	91000	MACH SETTERS, SET-UP, OPS, TENDERS	3,920	4,450	530	13.5	640		
687	91100	MACH TOOL CUTTING--METAL, PLASTIC	120	120	0	0.0	20		
693	91117	MACH TOOL CUTTING OPS--METAL, PLAST	120	120	0	0.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
706	91700	METAL FABRICATING MACH SETTERS, OPS	120	140	20	16.7	20		
711	91714	METAL FABRICATOR, STRUCT MET PRODS	120	140	20	16.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING
712	91900	METAL, PLAST PROCESS MACH SETTERS	130	140	10	7.7	20		
715	91908	METAL MOLDING, MACH SETTER, SET-UP	130	140	10	7.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING
736	92500	PRINTING, BINDING, RELATED WORKERS	230	300	70	30.4	40		
746	92543	PRINTING PRESS MACHINE OPS, TENDER	230	300	70	30.4	40	10	MODERATE-TERM ON-THE-JOB TRAINING

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			1999 (2)	2,006					
750	92700	TEXTILE, RELATED SETTERS, OPS	450	530	80	17.8	60		
756	92717	SEWING MACHINE OPERATORS--GARMENT	130	150	20	15.4	10	10	MODERATE-TERM ON-THE-JOB TRAINING
757	92721	SEWING MACHINE OPS--NON-GARMENT	180	220	40	22.2	20	10	MODERATE-TERM ON-THE-JOB TRAINING
759	92726	LNDRY, DRYCLEAN MACH OPS--EX PRESS	140	160	20	14.3	30	10	MODERATE-TERM ON-THE-JOB TRAINING
761	92900	MACH SETTER,SET-UP,OP--EX MET,PLAS	2,870	3,220	350	12.2	480		
762	92902	ELECTRONIC SEMICONDUCTOR PROCESSOR	130	150	20	15.4	10	10	MODERATE-TERM ON-THE-JOB TRAINING
772	92932	DAIRY PROC EQUIP OPRS--INC SETTERS	240	260	20	8.3	40	10	MODERATE-TERM ON-THE-JOB TRAINING
782	92962	SEPARATING, STILL MACH OPS, TNDRS	190	220	30	15.8	30	10	MODERATE-TERM ON-THE-JOB TRAINING
783	92965	CRUSHING, MIXING MACH OPS, TNDRS	220	260	40	18.2	40	10	MODERATE-TERM ON-THE-JOB TRAINING
786	92974	PACKAGING, FILLING MACH OPS, TNDRS	1,660	1,770	110	6.6	310	10	MODERATE-TERM ON-THE-JOB TRAINING
788	92998	MACHINE OPERATORS AND TENDERS, NEC	430	560	130	30.2	50	10	MODERATE-TERM ON-THE-JOB TRAINING
789	93000	ASSEMBLERS AND FABRICATORS--HAND	5,070	5,820	750	14.8	820		
790	93100	ASSEMBLERS, PRECISION	1,060	1,240	180	17.0	180		
794	93111	ELECTROMECH EQUIP ASSEMBLERS--PREC	190	210	20	10.5	30	08	WORK EXPERIENCE
795	93114	ELECTRICAL EQUIP ASSEMBLERS--PREC	600	700	100	16.7	100	08	WORK EXPERIENCE
797	93197	ASSEMBLERS, NEC--PRECISION	270	330	60	22.2	50	08	WORK EXPERIENCE
798	93900	OTHER HAND WORKERS	4,010	4,580	570	14.2	640		
800	93905	ELECTRICAL, ELECTRONIC ASSEMBLERS	410	490	80	19.5	60	11	SHORT-TERM ON-THE-JOB TRAINING
803	93914	WELDERS AND CUTTERS	350	390	40	11.4	70	07	POST-SECONDARY VOCATIONAL EDUCATION
810	93935	CANNERY WORKERS	290	290	0	0.0	50	11	SHORT-TERM ON-THE-JOB TRAINING
811	93938	MEAT, POULTRY, FISH CUTTERS--HAND	150	170	20	13.3	30	11	SHORT-TERM ON-THE-JOB TRAINING
814	93947	PAINTING, COATING, DECORATING--HAN	160	200	40	25.0	30	11	SHORT-TERM ON-THE-JOB TRAINING
817	93956	ASSEMB, FABRICATORS--EX MACH,ELECT	2,050	2,320	270	13.2	270	11	SHORT-TERM ON-THE-JOB TRAINING
818	93999	HAND WORKERS, NEC	600	720	120	20.0	130	11	SHORT-TERM ON-THE-JOB TRAINING
819	95000	PLANT AND SYSTEM OCCUPATIONS	530	590	60	11.3	90		



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			1999 (2)	2,006					
820	95002	WATER TREATMENT PLANT OPERATORS	530	590	60	11.3	90	09	LONG-TERM ON-THE-JOB TRAINING
832	97000	TRANS, MATERIAL MOVING MACHINE OPS	7,210	8,410	1,200	16.6	920		
833	97100	MOTOR VEHICLE OPERATORS	5,390	6,250	860	16.0	640		
834	97102	TRUCK DRIVERS, HEAVY	1,720	2,040	320	18.6	190	11	SHORT-TERM ON-THE-JOB TRAINING
835	97105	TRUCK DRIVERS, LIGHT	2,090	2,490	400	19.1	230	11	SHORT-TERM ON-THE-JOB TRAINING
836	97108	BUS DRIVERS	580	630	50	8.6	80	10	MODERATE-TERM ON-THE-JOB TRAINING
837	97111	BUS DRIVERS--SCHOOL	270	310	40	14.8	40	11	SHORT-TERM ON-THE-JOB TRAINING
838	97114	TAXI DRIVERS AND CHAUFFEURS	110	120	10	9.1	10	11	SHORT-TERM ON-THE-JOB TRAINING
839	97117	DRIVER/SALES WORKERS	620	660	40	6.5	90	11	SHORT-TERM ON-THE-JOB TRAINING
859	97800	MISC TRANSPORTATION WORKERS	210	230	20	9.5	70		
861	97805	SERVICE STATION ATTENDANTS	210	230	20	9.5	70	11	SHORT-TERM ON-THE-JOB TRAINING
864	97900	MATERIAL MOVEMENT EQUIP OPERATORS	1,610	1,930	320	19.9	210		
872	97923	EXCAVATING, LOADING MACHINE OPS	290	350	60	20.7	40	10	MODERATE-TERM ON-THE-JOB TRAINING
877	97938	GRADER, DOZER, SCRAPER OPERATORS	200	240	40	20.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
880	97947	INDUSTRIAL TRUCK,TRACTOR OPERATORS	270	310	40	14.8	20	11	SHORT-TERM ON-THE-JOB TRAINING
883	97956	OPERATING ENGINEERS	430	530	100	23.3	60	10	MODERATE-TERM ON-THE-JOB TRAINING
884	97989	MATERIAL MOVING EQUIP OPS, NEC	420	500	80	19.0	80	10	MODERATE-TERM ON-THE-JOB TRAINING
886	98000	HELPERS, LABORERS, HAND--EX AG	8,790	10,400	1,610	18.3	2,120		
887	98100	MECHANIC AND REPAIRER HELPERS	260	300	40	15.4	90		
888	98102	MECHANIC AND REPAIRER HELPERS, NEC	260	300	40	15.4	90	11	SHORT-TERM ON-THE-JOB TRAINING
889	98300	CONST TRADES, EXTRACTIVE--HELPERS	1,280	1,560	280	21.9	460		
890	98311	HELPERS--BRICK,STONE MASONS	140	180	40	28.6	50	11	SHORT-TERM ON-THE-JOB TRAINING
891	98312	HELPERS--CARPENTERS AND RELATED	250	310	60	24.0	90	11	SHORT-TERM ON-THE-JOB TRAINING
892	98313	HELPERS--ELECT, POWERLINE INSTALL	120	130	10	8.3	40	11	SHORT-TERM ON-THE-JOB TRAINING

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LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2,006					
893	98314	HELPERS--PAINTERS AND RELATED	200	240	40	20.0	70	11	SHORT-TERM ON-THE-JOB TRAINING
894	98315	HELPERS--PLUMBERS AND RELATED	130	150	20	15.4	50	11	SHORT-TERM ON-THE-JOB TRAINING
895	98316	HELPERS--ROOFERS	110	140	30	27.3	40	11	SHORT-TERM ON-THE-JOB TRAINING
896	98319	HELPERS--CONSTRUCTION TRADES, NEC	330	410	80	24.2	120	11	SHORT-TERM ON-THE-JOB TRAINING
899	98500	MACHINE FEEDERS AND OFFBEARERS	180	190	10	5.6	40		
900	98502	MACHINE FEEDERS AND OFFBEARERS, NEC	180	190	10	5.6	40	11	SHORT-TERM ON-THE-JOB TRAINING
901	98700	FREIGHT, STOCK, MAT MOVERS, HAND	1,120	1,190	70	6.3	320		
903	98705	REFUSE COLLECTORS	150	160	10	6.7	50	11	SHORT-TERM ON-THE-JOB TRAINING
904	98799	FREIGHT, MATERIAL MOVERS-HAND, NEC	970	1,030	60	6.2	270	11	SHORT-TERM ON-THE-JOB TRAINING
905	98900	MISC HELPERS, LABORERS--HAND	5,950	7,160	1,210	20.3	1,210		
906	98902	HAND PACKERS AND PACKAGERS	1,200	1,570	370	30.8	240	11	SHORT-TERM ON-THE-JOB TRAINING
907	98905	VEHICLE WASHERS, EQUIP CLEANERS	600	660	60	10.0	140	11	SHORT-TERM ON-THE-JOB TRAINING
908	98999	MISC HELPERS, LABORERS--HAND, NEC	4,150	4,930	780	18.8	830	11	SHORT-TERM ON-THE-JOB TRAINING
909		OCCUPATIONS NOT CLASSIFIED	60	80	20	33.3	0	12	NOT CLASSIFIED

(1) Employment and projections contained in these tables are considered estimates. See introduction for an explanation of data limitations.

(2) March 2000 Benchmark

**Table 7**  
**Occupations With The Most Openings (1)**  
**(Growth plus Separations)**  
**1999 - 2006**  
**SONOMA COUNTY**

CA OES CODE	OCCUPATION	NUMBER OF JOB OPENINGS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
49023	CASHIERS	2,560	11	SHORT-TERM ON-THE-JOB TRAINING
49011	SALESPERSONS, RETAIL	2,550	11	SHORT-TERM ON-THE-JOB TRAINING
65008	WAITERS AND WAITRESSES	1,640	11	SHORT-TERM ON-THE-JOB TRAINING
55347	GENERAL OFFICE CLERKS	1,600	11	SHORT-TERM ON-THE-JOB TRAINING
19005	GENERAL MANAGERS, TOP EXECUTIVE	1,420	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
65041	COMBINED FOOD PREP AND SERVICE	1,270	11	SHORT-TERM ON-THE-JOB TRAINING
65038	FOOD PREPARATION WORKERS	1,100	11	SHORT-TERM ON-THE-JOB TRAINING
79041	LABORERS, LANDSCAPING/GROUNDSKEEPING	900	11	SHORT-TERM ON-THE-JOB TRAINING
87102	CARPENTERS	850	09	LONG-TERM ON-THE-JOB TRAINING
31305	TEACHERS--ELEMENTARY SCHOOL	800	05	BACHELOR'S DEGREE
31521	TEACHER AIDES, PARAPROFESSIONAL	710	06	ASSOCIATE DEGREE
67005	JANITORS, CLEANERS--EXCEPT MAID	670	11	SHORT-TERM ON-THE-JOB TRAINING
97105	TRUCK DRIVERS, LIGHT	630	11	SHORT-TERM ON-THE-JOB TRAINING
49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	620	10	MODERATE-TERM ON-THE-JOB TRAINING
98902	HAND PACKERS AND PACKAGERS	610	11	SHORT-TERM ON-THE-JOB TRAINING
32502	REGISTERED NURSES	600	06	ASSOCIATE DEGREE
55338	BOOKKEEPING, ACCOUNTING CLERKS	580	10	MODERATE-TERM ON-THE-JOB TRAINING
55305	RECEPTIONISTS, INFORMATION CLERKS	550	11	SHORT-TERM ON-THE-JOB TRAINING
93956	ASSEMB, FABRICATORS--EX MACH, ELECTRIC	540	11	SHORT-TERM ON-THE-JOB TRAINING
97102	TRUCK DRIVERS, HEAVY	510	11	SHORT-TERM ON-THE-JOB TRAINING
55108	SECRETARIES, GENERAL	490	07	POST-SECONDARY VOCATIONAL EDUCATION
49017	COUNTER AND RENTAL CLERKS	480	11	SHORT-TERM ON-THE-JOB TRAINING
65026	COOKS--RESTAURANT	460	09	LONG-TERM ON-THE-JOB TRAINING
58028	TRAFFIC, SHIPPING, RECEIVING CLERKS	440	11	SHORT-TERM ON-THE-JOB TRAINING
92974	PACKAGING, FILLING MACH OPS, TENDERS	420	10	MODERATE-TERM ON-THE-JOB TRAINING
85132	MAINT REPAIRERS, GENL UTILITY	410	09	LONG-TERM ON-THE-JOB TRAINING
31308	TEACHERS--SECONDARY SCHOOL	380	05	BACHELOR'S DEGREE
81008	FIRST-LINE SUP/MGR-PRODUCTION	370	08	WORK EXPERIENCE
58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	360	11	SHORT-TERM ON-THE-JOB TRAINING
65017	COUNTER ATTENDANTS--FOOD	340	11	SHORT-TERM ON-THE-JOB TRAINING



**Table 7**  
**Occupations With The Most Openings (1)**  
**(Growth plus Separations)**  
**1999 - 2006**  
**SONOMA COUNTY**

CA OES CODE	OCCUPATION	NUMBER OF JOB OPENINGS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
53102	TELLERS	330	11	SHORT-TERM ON-THE-JOB TRAINING
85302	AUTOMOTIVE MECHANICS	330	09	LONG-TERM ON-THE-JOB TRAINING
32102	PHYSICIANS AND SURGEONS	310	01	FIRST PROFESSIONAL DEGREE
49021	STOCK CLERKS--SALES FLOOR	310	11	SHORT-TERM ON-THE-JOB TRAINING
87202	ELECTRICIANS	310	09	LONG-TERM ON-THE-JOB TRAINING
63047	GUARDS AND WATCH GUARDS	290	11	SHORT-TERM ON-THE-JOB TRAINING
25105	COMPUTER PROGRAMMERS	280	05	BACHELOR'S DEGREE
57305	POSTAL MAIL CARRIERS	280	11	SHORT-TERM ON-THE-JOB TRAINING
63017	CORRECTION OFFICERS, JAILERS	280	09	LONG-TERM ON-THE-JOB TRAINING
67002	MAIDS AND HOUSEKEEPING CLEANERS	280	11	SHORT-TERM ON-THE-JOB TRAINING
66005	MEDICAL ASSISTANTS	270	10	MODERATE-TERM ON-THE-JOB TRAINING
66008	NURSE AIDES, ORDERLIES, ATTENDANTS	270	11	SHORT-TERM ON-THE-JOB TRAINING
63014	POLICE PATROL OFFICERS	260	09	LONG-TERM ON-THE-JOB TRAINING
66011	HOME HEALTH CARE WORKERS	260	11	SHORT-TERM ON-THE-JOB TRAINING
65032	COOKS--SPECIALTY FAST FOOD	250	11	SHORT-TERM ON-THE-JOB TRAINING
13002	FINANCIAL MANAGERS	240	04	WORK EXP., PLUS A BACHELOR'S OR HIGHER
25104	COMPUTER SUPPORT SPECIALISTS	240	05	BACHELOR'S DEGREE
31303	TEACHERS, PRESCHOOL	240	05	BACHELOR'S DEGREE
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	240	11	SHORT-TERM ON-THE-JOB TRAINING
89108	MACHINISTS	240	09	LONG-TERM ON-THE-JOB TRAINING
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>30,370</b>		

(1) Excludes not elsewhere classified (NEC) categories.

**Table 8**  
**Occupations With Projected Declines (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF JOB DECLINES	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
		1999(2)	2006				
55307	TYPISTS, INCLUDING WORD PROCESS	610	540	-70	80	10	MODERATE-TERM ON-THE-JOB TRAINING
56011	COMPUTER OPS--EX PERIPHERAL EQUIP	180	160	-20	20	10	MODERATE-TERM ON-THE-JOB TRAINING
85726	STATION INSTALLERS--TELEPHONE	80	60	-20	20	07	POST-SECONDARY VOCATIONAL EDUCATION
21102	UNDERWRITERS	230	220	-10	50	05	BACHELOR'S DEGREE
57102	SWITCHBOARD OPERATORS	170	160	-10	30	11	SHORT-TERM ON-THE-JOB TRAINING
91321	MACH FORMING OPS,TENDRS--METAL, PLASTIC	90	80	-10	20	10	MODERATE-TERM ON-THE-JOB TRAINING
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>1,360</b>	<b>1,220</b>	<b>-140</b>	<b>220</b>		

(1) Excludes not elsewhere classified (NEC) categories.

(2) March 2000 Benchmark

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# Appendix





## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ABLE SEAMEN	854	97514
ACCOUNTANTS AND AUDITORS	30	21114
ACCOUNTANTS, AUDIT, FINANCE SPECIALISTS	25	21100
ACTUARIES	114	25313
ADJUDICATORS, JUDICIAL REVIEWERS	137	28105
ADJUSTMENT CLERKS	309	53123
ADMINISTRATIVE SERVICES MANAGERS	7	13014
ADVERTISING CLERKS	333	53908
AERONAUT, ASTRONAUTICAL ENGINEERS	53	22102
AGRICULTURE, FORESTRY, FISHING--NEC	489	79999
AGRICULTURAL SCIENCES TEACHERS, POSTSECONDARY	150	31201
AGRICULTURAL AND FOOD SCIENTISTS	91	24305
AGRICULTURAL ENGINEERS	60	22123
AGRICULTURAL, FORESTRY, FISHING	466	70000
AIR DISPATCHERS, AIR TRAFFIC CONTROLLER	267	39002
AIR HAMMER OPERATORS	596	87702
AIR TRANSPORTATION WORKERS	857	97700
AIRCRAFT ASSEMBLERS--PRECISION	791	93102
AIRCRAFT ENGINE SPECIALISTS	525	85326
AIRCRAFT MECHANICS	524	85323
AIRCRAFT PILOTS, FLIGHT ENGINEERS	858	97702
AMBULANCE DRIVERS & ATTENDANTS, EX EMER MED TECHS	440	66023
AMUSEMENT, RECREATION ATTENDANTS	454	68014
ANIMAL BREEDERS	479	79015
ANIMAL CARETAKERS--EXCEPT FARM	481	79017
ANIMAL TRAINERS	480	79016
ANNOUNCERS--EX RADIO, TELEVISION	252	34021
ANNOUNCERS--RADIO AND TELEVISION	251	34017
ANTHRO & SOCIOLOGY TEACHERS, POSTSECONDARY	166	31231
APPRAISERS--REAL ESTATE	279	43011
ARCHITECTS AND SURVEYORS	68	22300
ARCHITECTS--EX LANDSCAPE, MARINE	69	22302
ARCHITECTURE TEACHERS, POSTSECONDARY	162	31223
AREA,ETHNIC,&CULT STUDIES TEACHERS, POSTSECONDARY	167	31232
ART, DRAMA, MUSIC TEACHERS, POSTSEONDARY	160	31218
ARTISTS AND RELATED WORKERS	257	34035
ASSEMB, FABRICATORS--EX MACH, ELECT, PRECISION	817	93956
ASSEMBLERS AND FABRICATORS--HAND WORKING	789	93000
ASSEMBLERS, NEC--PRECISION	797	93197
ASSEMBLERS, PRECISION	790	93100
ASSESSORS	48	21917
ATHLETES, COACHES, UMPIRERS, RELATED	265	34058
ATMOSPHERIC AND SPACE SCIENTISTS	86	24108
AUDIO-VISUAL SPECIALISTS	198	31508
AUTOMOTIVE BODY, RELATED REPAIRERS	518	85305
AUTOMOTIVE MECHANICS	517	85302
AUXILIARY EQUIPMENT OPERATORS--POWER	827	95023
BAGGAGE PORTERS AND BELLHOPS	457	68023
BAILIFFS	406	63023
BAKERS--BREAD AND PASTRY	423	65021

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
BAKERS--MANUFACTURING	672	89805
BANKING, SECURITY, FINANCE, CREDIT	301	53100
BARBERS	450	68002
BARTENDERS	418	65005
BICYCLE REPAIRERS	563	85951
BILL AND ACCOUNT COLLECTORS	321	53508
BILLING, COST, AND RATE CLERKS	355	55344
BILLING, POSTING, CALCULATING MACHINE OPERATORS	358	56002
BINDERY MACH SETTERS, SET-UP OPERATORS	743	92525
BINDERY MACHINE OPERATORS	748	92546
BIOLOGICAL SCIENTISTS	92	24308
BIOLOGICAL, AGRICULTURAL &, FOOD TECHS EX HEALTH	96	24502
BLASTERS AND EXPLOSIVES WORKERS	612	87905
BOILER OPS, TENDERS--LOW PRESSURE	770	92926
BOILERMAKERS	638	89135
BOOKBINDERS	668	89721
BOOKKEEPING, ACCOUNTING CLERKS	353	55338
BRATTICE BUILDERS	574	87121
BRICK MASONS	578	87302
BRIDGE, LOCK, LIGHTHOUSE TENDERS	860	97802
BROADCAST NEWS ANALYSTS	250	34014
BROADCAST TECHNICIANS	255	34028
BROKERAGE CLERKS	311	53128
BROKERS--REAL ESTATE	277	43005
BUDGET ANALYSTS	31	21117
BUS AND TRUCK MECHANICS	520	85311
BUS DRIVERS	836	97108
BUS DRIVERS--SCHOOL	837	97111
BUSINESS TEACHERS, POSTSECONDARY	174	31242
BUTCHERS AND MEAT CUTTERS	424	65023
CABINETMAKERS AND BENCH CARPENTERS	644	89311
CAMERA OPERATORS	663	89713
CAMERA OPS--TV AND MOTION PICTURE	254	34026
CAMERA, PHOTOGRAPHIC EQUIPMENT REPAIRERS	552	85914
CANNERY WORKERS	810	93935
CAPTAINS--WATER VESSEL	850	97502
CARDIOLOGY TECHNOLOGISTS	239	32925
CARPENTERS	569	87102
CARPENTERS AND RELATED WORKERS	568	87100
CARPET CUTTERS, DIAGRAMMERS, SEAMERS	809	93932
CARPET INSTALLERS	592	87602
CARPET, FLOOR INSTALLERS	591	87600
CASHIERS	293	49023
CEILING TILE INSTALLERS	570	87105
CEMENTING, GLUING MACHINE OPERATORS, TENDERS	780	92956
CENTRAL OFFICE AND PBX INSTALLERS	529	85502
CENTRAL OFFICE OPERATORS	370	57108
CHEMICAL TECHNICIANS & TECHNOLOGISTS--EX HEALTH	97	24505
CHEMICAL ENGINEERS	57	22114
CHEMICAL EQUIPMENT CONTROLLERS, OPERATORS	773	92935



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
CHEMICAL EQUIPMENT TENDERS	774	92938
CHEMICAL PLANT, SYSTEM OPERATORS	822	95008
CHEMISTRY TEACHERS, POSTSECONDARY	152	31204
CHEMISTS, EXCEPT BIOCHEMISTS	85	24105
CHILD CARE WORKERS	462	68038
CHIROPRACTORS	209	32113
CHOKE SETTERS	471	73005
CIVIL ENGINEERING TECHNICIANS	74	22502
CIVIL ENGINEERS--INCLUDING TRAFFIC	59	22121
CLAIMS EXAMINERS--INSURANCE	49	21921
CLAIMS TAKERS--UNEMPLOYMENT BENEFITS	38	21502
CLEANING, BUILDING SERVICE--EX PRIVATE HOUSES	443	67000
CLEANING, BUILDING SERVICE--EX PRIVATE HOUSES, NEC	448	67099
CLEANING, PICKLING EQUIPMENT OPERATORS,TENDERS	781	92958
CLERGY	131	27502
CLERICAL & ADMINISTRATIVE SUPPORT WORKERS, NEC	391	59999
CLERICAL, ADMINISTRATIVE SUPPORT, NEC	390	59000
CLERICAL, ADMINISTRATIVE SUPPORT	298	50000
COIL WINDERS, TAPERS, FINISHERS	801	93908
COIN, VENDING MACHINE SERVICERS	562	85947
COMB MACHINE TOOL OPERATORS--METAL, PLASTIC	705	91508
COMB MACHINE TOOL SETTERS--METAL, PLASTIC	704	91505
COMBINED FOOD PREPARATION AND SERVICE	430	65041
COMM EQUIPMENT MECHANICS, INSTALLERS, & REPAIRERS	528	85500
COMM EQUIPMENT MECHANICS, INSTALLERS, & REPAIR, NEC	534	85599
COMM, TRANSPORTATION, UTILITIES OPERATIONS MGRS	16	15023
COMMUNICATION EQUIPMENT OPERATORS, NEC	372	57199
COMMUNICATION EQUIPMENT OPERATORS	367	57100
COMMUNICATIONS TEACHERS, POSTSECONDARY	157	31213
COMMUNICATIONS, MAIL DISTRIBUTION	366	57000
COMPLIANCE OFFICERS, ENFORCE INSPECT--EX CONSTRUCTION	46	21911
COMPUTER ENGINEERS	62	22127
COMPUTER OPERATORS--EX PERIPHERAL EQUIPMENT	361	56011
COMPUTER PROGRAMMER AIDES	107	25108
COMPUTER PROGRAMMERS	106	25105
COMPUTER SCIENCE TEACHERS, POSTSECONDARY	164	31226
COMPUTER SCIENTISTS AND RELATED	102	25100
COMPUTER SCIENTISTS, RELATED WORKERS, NEC	109	25199
COMPUTER SUPPORT SPECIALISTS	105	25104
COMPUTER, MATHEMATICAL, OPS RESEARCH, & RELATED	101	25000
CONCRETE AND TERRAZZO FINISHERS	581	87311
CONSTRUCTION AND BUILDING INSPECTORS	45	21908
CONSTRUCTION TRADES, EXTRACTIVE--HELPERS	889	98300
CONSTRUCTION, EXTRACTIVE--EX HELPERS, NEC	624	87999
CONSTRUCTION MANAGERS	14	15017
CONSTRUCTION TRADES	567	87000
CONSTRUCTION TRADES WORKERS, NEC	609	87899
CONSTRUCTION TRADES, NEC	601	87800
CONTINUOUS MINING MACHINE OPERATOR	620	87941
CONVEYOR OPERATORS AND TENDERS	881	97951

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
COOKING MACHINE OPS,TENDERS-FOOD,TOBACCO	767	92917
COOKS--INSTITUTION OR CAFETERIA	426	65028
COOKS--RESTAURANT	425	65026
COOKS--SHORT ORDER	428	65035
COOKS--SPECIALTY FAST FOOD	427	65032
COOLING, FREEZING EQUIPMENT OPERATORS, TENDERS	771	92928
CORRECTION OFFICERS, JAILERS	404	63017
CORRECTIVE, MANUAL ARTS THERAPISTS	216	32311
CORRESPONDENCE CLERKS	346	55317
COST ESTIMATORS	43	21902
COUNTER AND RENTAL CLERKS	291	49017
COUNTER ATTENDANTS--FOOD	422	65017
COURT CLERKS	323	53702
CRANE AND TOWER OPERATORS	879	97944
CREDIT ANALYSTS	27	21105
CREDIT AUTHORIZERS	306	53114
CREDIT CHECKERS	307	53117
CRIMINAL INVESTIGATORS, FEDERAL	408	63028
CRIMINAL JUSTICE & LAW ENFORCEMENT TEACHERS,	176	31246
CROSSING GUARDS	413	63044
CRUSHING, MIXING MACHINE OPERATORS, TENDERS	783	92965
CURATORS, ARCHIVISTS, AND RELATED	199	31511
CUSTOM TAILORS AND SEWERS	649	89505
CUSTOMER SERVICE REPRESENTATIVES--UTILITIES	352	55335
CUTTING, FORMING, FABRICATING, PROCESS MACH SETTER	728	92197
CUTTING, FORMING, FABRICATING, PROCESS MACH OPS	729	92198
CUTTING & SLICING MACHINE SETTERS & SET-UP OPS	775	92941
CUTTERS AND TRIMMERS--HAND	807	93926
CUTTING & SLICING MACHINE OPERATORS & TENDERS	776	92944
DAIRY PROCESSING EQUIPMENT OPERATORS--INC SETTERS	772	92932
DANCERS AND CHOREOGRAPHERS	263	34053
DATA BASE ADMINISTRATORS	104	25103
DATA ENTRY KEYERS--EX COMPOSING	363	56017
DATA KEYERS--COMPOSING	364	56021
DATA PROCESSING EQUIPMENT REPAIRERS	537	85705
DEMONSTRATORS AND PROMOTERS	295	49034
DENTAL ASSISTANTS	433	66002
DENTAL HYGIENISTS	233	32908
DENTAL LABORATORY TECHNICIANS, PRECISION	682	89921
DENTISTS	206	32105
DERRICK OPERATORS--OIL, GAS EXTRACTION	615	87914
DESIGNERS, EX INTERIOR DESIGNERS	258	34038
DETAIL DESIGN DECORATORS, PAINTERS	679	89911
DETECTIVES, INVESTIGATORS--EX PUBLIC	410	63035
DIETETIC TECHNICIANS	229	32523
DIETITIANS AND NUTRITIONISTS	228	32521
DINING ROOM ATTENDANTS, BAR HELPERS	421	65014
DIRECTORS--RELIGIOUS ACTIVITIES, EDUC	132	27505
DIRECTORY ASSISTANCE OPERATORS	369	57105
DISPATCH--EX POLICE, FIRE, AMBULANCE	380	58005

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
DISPATCH--POLICE, FIRE, AMBULANCE	379	58002
DRAFTERS	78	22514
DRAGLINE OPERATORS	873	97926
DREDGE OPERATORS, DIPPER TENDERS	874	97928
DRILLING MACHINE SETTER--METAL, PLASTIC	690	91108
DRIVER/SALES WORKERS	839	97117
DRYWALL INSTALLERS	571	87108
DUPLICATING MACHINE OPERATORS	359	56005
DYERS, PRECISION	654	89521
EARTH DRILLERS, EXCEPT OIL AND GAS	611	87902
ECONOMICS TEACHERS, POSTSECONDARY	168	31233
ECONOMISTS--INCL MARKET RESEARCH ANALYST	120	27102
EDP AND OFFICE MACHINE OCCUPATIONS	357	56000
EDUCATION ADMINISTRATORS	10	15005
EDUCATION TEACHERS, POSTSECONDARY	178	31252
ELECTRICAL INSTALLERS--TRANSPORTATION EQUIPMENT	545	85728
ELECTRICAL AND ELECTRONIC ENGINEERS	61	22126
ELECTRICAL EQUIPMENT MECHANICS, NEC	546	85799
ELECTRIC HOME APPLIANCE & POWER TOOL REPAIRERS	539	85711
ELECTRONIC HOME ENTERTAINMENT EQUIP REPAIRERS	538	85708
ELECTRIC METER INSTALLERS, REPAIRERS	551	85911
ELECTRIC MOTOR, AND RELATED REPAIRERS	540	85714
ELECTRICAL POWERLINE INSTALLERS	543	85723
ELECTRONICS REPAIRERS--COMMERCIAL & INDUSTRIAL	541	85717
ELECTRICAL & ELECTRONIC ENGINEERING TECHS & TECHNOS	75	22505
ELECTRICAL EQUIPMENT ASSEMBLERS--PRECISION	795	93114
ELECTRICAL, ELECTRONIC ASSEMBLERS	800	93905
ELECTRICIANS	576	87202
ELECTRICIANS AND RELATED WORKERS	575	87200
ELECTROCARDIOGRAPH TECHNICIANS	240	32926
ELECTROLYTIC PLATING, MACHINE OPERATORS	719	91921
ELECTROLYTIC PLATING, MACHINE SETTER	718	91917
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS--PRECISION	794	93111
ELECTROMEDICAL, BIOMEDICAL EQUIPMENT REPAIRER	550	85908
ELECTRONEURODIAGNOSTIC TECHNOLOGISTS	238	32923
ELECTRONIC PAGINATION SYSTEM WORKERS	660	89707
ELECTRONIC SEMICONDUCTOR PROCESSOR	762	92902
ELEVATOR INSTALLERS AND REPAIRERS	558	85932
ELEVATOR OPERATORS	447	67011
EMBALMERS	271	39014
EMERGENCY MEDICAL TECHNICIANS	223	32508
EMPLOYMENT INTERVIEWERS--PRIVATE OR PUBLIC	40	21508
ENGINEER, MATH, AND NATURAL SCIENCE MANAGERS	8	13017
ENGINEERING TEACHERS, POSTSECONDARY	161	31222
ENGINEERING, RELATED TECHNICIANS	73	22500
ENGINEERING, RELATED TECHS & TECHNOS, NEC	81	22599
ENGINEERS	52	22100
ENGINEERS, ARCHITECTS, SURVEYORS	51	22000
ENGINEERS, NEC	67	22199
ENGLISH LANG & LIT TEACHERS, POSTSECONDARY	158	31214



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ENGRAVING, PRINTING WORKERS--HAND	815	93951
ESTIMATORS, DRAFTERS--UTILITIES	79	22517
ETCHERS, ENGRAVERS--PRECISION	636	89128
EXCAVATING, LOADING MACHINE OPERATORS	872	97923
EXTRACTIVE AND RELATED WORKERS	610	87900
EXTRACTIVE WORKERS--EX HELPERS,NEC	623	87989
EXTRUDING MACHINE OPS,TENDERS--SYNTHETIC/GLASS	753	92708
EXTRUDING MACHINE SETTERS--METAL,PLASTIC	698	91311
EXTRUDING, FORMING MACHINE OPERATORS, TENDERS	785	92971
EXTRUDING, FORMING, SETTERS & SET-UP OPERATORS	784	92968
FALLERS AND BUCKERS	470	73002
FARM AND HOME MANAGEMENT ADVISORS	193	31323
FARM EQUIPMENT MECHANICS	523	85321
FARM EQUIPMENT OPERATORS	482	79021
FARMWORKERS-FARM/RANCH ANIMALS	488	79858
FARMWORKERS-FOOD, FIBER CROPS	487	79856
FENCE ERECTORS	608	87817
FILE CLERKS	347	55321
FILM EDITORS	256	34032
FINANCIAL ANALYSTS, STATISTICAL	115	25315
FINANCIAL MANAGERS	3	13002
FINANCIAL SPECIALISTS, NEC	32	21199
FIRE FIGHTERS	401	63008
FIRE FIGHTING & PREVENTION SUPERVISORS	394	61002
FIRE INSPECTORS	399	63002
FIRST-LINE SUP/MGR SERVICE WORKERS, NEC	397	61099
FIRST-LINE SUP/MGR, CLERICAL, ADMINISTRATIVE SUPPORT	299	51000
FIRST-LINE SUP/MGR--AGRICULTURAL, FORESTRY, FISHING	467	72000
FIRST-LINE SUP/MGR-BLUE COLLAR	491	81000
FIRST-LINE SUP/MGR-BLUE COLLAR NEC	497	81099
FIRST-LINE SUP/MGR-CONSTRUCTION	493	81005
FIRST-LINE SUP/MGR-HELP, LABORERS	496	81017
FIRST-LINE SUP/MGR-MECHANICS, INSTALLERS, REPAIRERS	492	81002
FIRST-LINE SUP/MGR-PRODUCTION	494	81008
FIRST-LINE SUP/MGR--SALES	274	41000
FIRST-LINE SUP/MGR--SERVICE	393	61000
FIRST-LINE SUP/MGR-TRANSPORTATION	495	81011
FIRST-LINE SUPERVISORS - AGRICULTURE	468	72002
FISH AND GAME WARDENS	412	63041
FITTERS, STRUCTURAL METAL--PRECISION	793	93108
FLIGHT ATTENDANTS	458	68026
FLOOR LAYERS--EX CARPET,WOOD,TILES	593	87605
FLOOR SANDING MACHINE OPERATORS	594	87608
FOOD AND TOBACCO WORKERS, NEC	674	89899
FOOD BATCHMAKERS	673	89808
FOOD PREPARATION WORKERS	429	65038
FOOD SERVERS--OUTSIDE	420	65011
FOOD SERVICE AND LODGING MANAGERS	17	15026
FOOD SERVICE WORKERS, NEC	431	65099
FOOD WORKERS, PRECISION	670	89800

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
FOOD, BEVERAGE PREPARATION AND SERVICE OCCS	416	65000
FOREIGN LANG & LITERATURE TEACHERS, POSTSECONDARY	159	31215
FOREST FIRE INSPECTORS, PREVENT SPECIALISTS	400	63005
FOREST, CONSERVATION WORKERS	476	79002
FORESTERS, CONSERVATION SCIENTISTS	90	24302
FORGING MACHINE SETTERS--METAL, PLASTIC	700	91317
FOUNDRI MOLD ASSEMBLY, SHAKEOUT	717	91914
FOUNDRI MOLD,CORE MAKERS,PRECISION	676	89902
FRAME WIRERS, CENTRAL OFFICE	530	85505
FREIGHT, MATERIAL MOVERS-HAND, NEC	904	98799
FREIGHT, STOCK, MATERIAL MOVERS, HAND	901	98700
FUNERAL ATTENDANTS	463	68041
FUNERAL DIRECTORS AND MORTICIANS	270	39011
FURNACE OPERATORS AND TENDERS	724	91935
FURNACE, KILN, KETTLE OPERATORS, TENDERS	769	92923
FURNITURE FINISHERS	645	89314
GAS APPLIANCE REPAIRERS	561	85944
GAS COMPRESSOR OPERATORS	871	97921
GAS PLANT OPERATORS	821	95005
GAS PUMPING STATION OPERATORS	870	97917
GAUGERS	825	95017
GEM AND DIAMOND WORKERS	684	89926
GENERAL MANAGERS, TOP EXECUTIVES	21	19005
GENERAL OFFICE CLERKS	356	55347
GEOGRAPHY TEACHERS, POSTSECONDARY	169	31234
GEOLOGIST, GEOPHYSICISTS, OCEANOGRAPHERS	87	24111
GLAZIERS	606	87811
GLAZIERS, MANUFACTURING	802	93911
GRADER, DOZER, SCRAPER OPERATORS	877	97938
GRADERS, SORTERS--AGRICULTURAL PRODUCTS	478	79011
GRADUATE ASSISTANTS, TEACHING	149	31117
GRINDING MACHINE SETTER--METAL,PLASTIC	692	91114
GRINDING, POLISHING WORKERS--HAND	816	93953
GUARDS AND WATCH GUARDS	414	63047
GUIDES	455	68017
HAIRDRESSERS, HAIRSTYLISTS	451	68005
HAND COMPOSITORS AND TYPESETTERS	657	89702
HAND PACKERS AND PACKAGERS	906	98902
HAND WORKERS, NEC	818	93999
HAND WORKERS--JEWELRY, PRECISION	635	89126
HARD TILE SETTERS	580	87308
HAZARDOUS MATERIALS REMOVAL WORKERS	603	87803
HEAD SAWYERS	732	92305
HEALTH ASSESSMENT & TREATMENT TEACHERS, POSTSEC	156	31212
HEALTH CARE MAINTENANCE, TREATING	220	32500
HEALTH CARE PROFESSIONALS, PARAPROFS, NEC	244	32999
HEALTH DIAGNOSING, TREATING	204	32100
HEALTH DIAGNOSING, TREATING, NEC	211	32199
HEALTH DIAGNOSTICS TEACHERS, POSTSECONDARY	155	31211
HEALTH PRACTITIONERS, TECHS, RELATED	203	32000

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
HEALTH SERVICE WORKERS, NEC	442	66099
HEALTH SERVICE, RELATED OCCS	432	66000
HEAT TREATING MACHINE OPS, TENDERS	723	91932
HEATERS, METAL & PLASTIC	725	91938
HEATING EQUIP SETTERS-METAL, PLASTIC	722	91928
HEATING, AC, REFRIGERATION MECHANICS	548	85902
HELPERS, LABORERS, HAND--EX AGRICULTURE & FORESTRY	886	98000
HELPERS--BRICK,STONE MASONS	890	98311
HELPERS--CARPENTERS AND RELATED	891	98312
HELPERS--CONSTRUCTION TRADES, NEC	896	98319
HELPERS--CONST TRADES & EXTRACT WORKERS	898	98399
HELPERS--ELECTRICIANS, POWERLINE INSTALLERS	892	98313
HELPERS--EXTRACTIVE WORKERS	897	98323
HELPERS--PAINTERS AND RELATED	893	98314
HELPERS--PLUMBERS AND RELATED	894	98315
HELPERS--ROOFERS	895	98316
HIGHWAY MAINTENANCE WORKERS	599	87711
HISTORY TEACHERS, POSTSECONDARY	170	31235
HOIST AND WINCH OPERATORS	878	97941
HOME ECONOMICS TEACHERS, POSTSECONDARY	182	31262
HOME HEALTH CARE WORKERS	436	66011
HOSTS, HOSTESSES--RESTAURANTS	417	65002
HOTEL DESK CLERKS	329	53808
HOUSEKEEPING SUPERVISORS	396	61008
HUMAN SERVICES WORKERS	128	27308
INDUSTRIAL ENGINEERING TECHS & TECHNOS	76	22508
INDUST ENGINEERS--EXCEPT SAFETY	63	22128
INDUSTRIAL PRODUCTION MANAGERS	13	15014
INDUSTRIAL TRUCK,TRACTOR OPERATORS	880	97947
INDUSTRY SPECIFIC CLERICAL, ADMINISTRATIVE SUPPORT	300	53000
INSURANCE ADJUSTERS, EXAMINERS, INVESTIGATORS	313	53302
INSPECTORS, RELATED OCCUPATIONS	498	83000
INSPECTORS, TESTERS, RELATED, NEC	502	83099
INSPECTORS,TESTERS,& GRADERS,PRECISION	499	83002
INSTALLER & REPAIRER, MOBILE HOME	560	85938
INSTRUCTIONAL COORDINATORS	201	31517
INSTRUCTORS AND COACHES--SPORTS	192	31321
INSTRUCTORS--NON-VOCATIONAL EDUCATION	191	31317
INSTRUMENT MAKERS, PRECISION	628	89105
INSTRUMENT REPAIRERS, PRECISION	549	85905
INSULATION WORKERS	602	87802
INSURANCE APPRAISERS--AUTO DAMAGE	314	53305
INSURANCE CLAIMS CLERKS	316	53311
INSURANCE EXAMINING CLERKS	315	53308
INSURANCE POLICY PROCESSING CLERKS	317	53314
INSURANCE WORKERS	312	53300
INTERIOR DESIGNERS	259	34041
INTERVIEW CLERKS--EX PERSONNEL, WELFARE	351	55332
INVESTIGATIVE, RELATED, EX INSURANCE	318	53500
INVESTIGATORS--CLERICAL	320	53505



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
JANITORS, CLEANERS--EXCEPT MAIDS	445	67005
JEWELERS AND SILVERSMITHS	634	89123
JOB PRINTERS	658	89705
JUDGES AND MAGISTRATES	136	28102
LABORERS, LANDSCAPING/GROUNDSKEEPING	485	79041
LANDSCAPE ARCHITECTS	71	22308
LATHE MACHINE SETTERS--METAL, PLASTIC	689	91105
LATHERS	573	87114
LAW AND RELATED OCCUPATIONS	134	28000
LAW CLERKS	140	28302
LAW TEACHERS, POSTSECONDARY	175	31244
LAWN SERVICE MANAGER	19	15032
LAWYERS	138	28108
LAWYERS AND RELATED WORKERS	135	28100
LAYOUT WORKERS--METAL, PRECISION	632	89117
LECTURERS	147	31111
LEGAL ASSISTANTS, TECHNICIANS, EX CLERICAL	139	28300
LEGAL ASSISTANTS, TECHNICIANS--EX CLERICAL, NEC	144	28399
LETTERPRESS SETTERS, SET-UP OPERATORS	739	92515
LIBRARIANS, ARCHIVISTS AND RELATED	195	31500
LIBRARIANS--PROFESSIONAL	196	31502
LIBRARY ASSISTANTS & BOOKMOBILE DRIVERS	331	53902
LIBRARY SCIENCE TEACHERS, POSTSECONDARY	180	31256
LICENSE CLERKS	325	53708
LICENSED VOCATIONAL NURSES	222	32505
LIFE SCIENCES TEACHERS, POSTSECONDARY	151	31202
LIFE SCIENTISTS	89	24300
LIFE SCIENTISTS, NEC	94	24399
LITHOGRAPHY & PHOTOENGRAVING WORKERS,NEC	667	89719
LITHOGRAPHY & PHOTOENGRAVING, PRECISION	661	89710
LAUNDRY, DRYCLEAN MACH OPS--EX PRESS	759	92726
LOADING MACHINE OPERATORS--MINING	875	97932
LOAN AND CREDIT CLERKS	308	53121
LOAN INTERVIEWERS	305	53111
LOAN OFFICERS AND COUNSELORS	28	21108
LOCKSMITHS AND SAFE REPAIRERS	555	85923
LOCOMOTIVE ENGINEERS	843	97305
LOCOMOTIVE FIRERS	845	97311
LODGING AND TRAVEL WORKERS	326	53800
LOG GRADERS AND SCALERS	477	79008
LOG HANDLING EQUIPMENT OPERATORS	472	73008
LOGGING TRACTOR OPERATORS	473	73011
LONGSHORE EQUIPMENT OPERATORS	865	97902
MACHINE BUILDERS & OTHER PRECISION MACH ASSEMBLER	792	93105
MACHINE FORMING OPS,TENDERS--METAL, PLASTIC	701	91321
MACHINE FORMING SETTERS--METAL,PLASTIC	694	91300
MACHINE SETTER,SET-UP,OP--EX METAL,PLASTIC	761	92900
MACHINE SETTERS, SET-UP OPERATORS, & TENDERS	686	91000
MACHINE TOOL CUTTING OPS--METAL,PLASTIC	693	91117
MACHINE TOOL CUTTING--METAL, PLASTIC	687	91100

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MACHINE TOOL SETTERS, OPS--METAL,PLASTIC	702	91500
MACHINE ASSEMBLERS	799	93902
MACHINE FEEDERS AND OFFBEARERS	899	98500
MACHINE FEEDERS AND OFFBEARERS,NEC	900	98502
MACHINE OPERATORS AND TENDERS, NEC	788	92998
MACHINE SETTERS & SET-UP OPERATORS, NEC	787	92997
MACHINERY AND RELATED MECHANICS	504	85100
MACHINERY MAINT MECHANICS, NEC	511	85119
MACHINERY MAINTENANCE MECHANICS	505	85110
MACHINERY MAINTENANCE WORKERS	514	85128
MACHINISTS	629	89108
MAIDS AND HOUSEKEEPING CLEANERS	444	67002
MAIL CLERKS-EX MAIL MACHINE OPERATORS, POSTAL	374	57302
MAIL MACHINE OPERATORS--PREP AND HANDLING	360	56008
MAIL, MESSAGE DISTRIBUTION WORKERS	373	57300
MAIN LINE STATION ENGINEERS	869	97914
MAINTENANCE MECHANICS--MARINE EQUIP	508	85116
MAINTENANCE MECHANICS--WATER, POWER	510	85118
MAINTENANCE REPAIRERS, GENERAL UTILITY	515	85132
MAINTENANCE MECHANICS--SEWING MACHINE	507	85113
MAINTENANCE MECHANICS--TEXTILE	506	85112
MANAGEMENT ANALYSTS	44	21905
MANAGEMENT SUPPORT OCCUPATIONS	24	21000
MANAGEMENT SUPPORT WORKERS, NEC	50	21999
MANAGERS AND ADMINISTRATORS, NEC	22	19999
MANICURISTS	452	68008
MARINE ARCHITECTS	70	22305
MARINE ENGINEERS	66	22138
MARKING CLERKS	385	58021
MASONS AND RELATED WORKERS	577	87300
MATERIAL MOVEMENT EQUIPMENT OPERATORS	864	97900
MATERIAL MOVING EQUIP OPERATORS, NEC	884	97989
MATERIAL RECORDING, DISPATCHING	378	58000
MATERIAL RECORDING, RELATED, NEC	389	58099
MATES--SHIP, BOAT, AND BARGE	851	97505
MATH SCIENTISTS AND RELATED	110	25300
MATHEMATICAL SCIENCES TEACHERS, POSTSECONDARY	163	31224
MATHEMATICAL SCIENTISTS	112	25310
MATHEMATICAL SCIENTISTS, NEC	116	25319
MATHEMATICAL TECHNICIANS	117	25323
MEAT, POULTRY, FISH CUTTERS--HAND	811	93938
MECHANICAL CONTROL, VALVE INSTALLERS	557	85928
MECHANIC AND REPAIRER HELPERS	887	98100
MECHANIC AND REPAIRER HELPERS, NEC	888	98102
MECHANICAL ENGINEERING TECHNICIANS	77	22511
MECHANICAL ENGINEERS	65	22135
MECHANICS, INSTALLERS, REPAIRERS	503	85000
MECHANICS, NEC	527	85399
MECHANICS, INSTALLERS, REPAIRERS, NEC	566	85999
MEDICAL, CLINICAL LAB ASSISTANTS	232	32905

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MEDICAL, CLINICAL LAB TECHNOLOGISTS	231	32902
MEDICAL APPLIANCE MAKERS	683	89923
MEDICAL ASSISTANTS	434	66005
MEDICAL RECORDS TECHNICIANS	234	32911
MEDICAL SCIENTISTS	93	24311
MEDICINE, HEALTH SERVICES MANAGERS	11	15008
MENDERS, GARMENTS AND LINENS	565	85956
MERCHANDISE DISPLAYERS, WINDOW TRIMMERS	260	34044
MERCHANDISE, PRODUCTS AND OTHER SALES	285	49000
MESSENGERS	377	57311
METAL FABRICATING MACH SETTERS, OPS	706	91700
METAL FABRICATOR, STRUCTURAL METAL PRODUCTS	711	91714
METAL MOLDING MACHINE OPERATORS AND TENDERS	716	91911
METAL MOLDING, MACHINE SETTER, SET-UP	715	91908
METAL POURERS, CASTERS--BASIC	812	93941
METAL WORKERS, NEC--PRECISION	639	89199
METAL WORKERS, PRECISION	626	89100
METAL, PLASTIC MACHINE SETTERS, OPS NEC	727	92100
METAL, PLASTIC PROCESS MACHINE SETTERS	712	91900
METALLURGISTS, RELATED ENGINEERS	54	22105
METER READERS--UTILITIES	383	58014
MANAGERS AND ADMINISTRATIVE OCCUPATIONS	2	10000
MILLING MACHINE SETTERS--METAL, PLASTIC	691	91111
MILLWRIGHTS	512	85123
MINE CUTTING, CHANNELING MACHINE OPERATORS	621	87943
MINING ENGINEERS--INCL MINE SAFETY	55	22108
MINING MACHINE OPERATORS	619	87940
MINING MACHINE OPERATORS, NEC	622	87949
MINING, OIL AND GAS, RELATED MANAGERS	15	15021
MISC AGRICULTURE, FORESTRY, FISHING	475	79000
MISC HELPERS, LABORERS--HAND	905	98900
MISC HELPERS, LABORERS--HAND, NEC	908	98999
MISC INDUSTRY SPECIFIC CLERICAL	330	53900
MISC MECHANICS, INSTALLERS, REPAIRERS	547	85900
MISC METAL, PLASTIC MACHINE SETTERS OPERATORS	726	91999
MISC PERSONAL SERVICE OCCUPATIONS	449	68000
MISC PROFESSIONALS, PARAPROFS, TECHNICAL	266	39000
MISC SECRETARIAL, GENERAL OFFICE OCCS	341	55300
MISC SERVICE WORKERS	464	69000
MISC TRANSPORTATION WORKERS	859	97800
MARKETING, ADVERTISING, PUBLIC-RELATIONS MANAGERS	6	13011
MOBILE EQUIPMENT MECHANICS, REPAIRERS	516	85300
MOBILE HEAVY EQUIP MECHANICS--EX ENGINE	521	85314
MODELS	296	49036
MOLDERS AND CASTERS--HAND	813	93944
MOLDERS, SHAPERS--EX JEWELRY	677	89905
MOTION PICTURE PROJECTIONISTS	763	92905
MOTOR VEHICLE OPERATORS	833	97100
MOTOR VEHICLE OPERATORS, NEC	840	97199
MOTORBOAT OPERATORS	853	97511



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MOTORCYCLE REPAIRERS	519	85308
MUNICIPAL CLERKS	324	53705
MUNICIPAL WORKERS	322	53700
MUSIC DIRECTORS, SINGERS, COMPOSERS	261	34047
MUSICAL INSTRUMENT REPAIRERS AND TUNERS	554	85921
MUSICIANS--INSTRUMENTAL	262	34051
NATURAL SCIENTISTS AND RELATED WORKERS	82	24000
NUMERICAL TOOL, PROCESS PROGRAMMERS	108	25111
NEW ACCOUNTS CLERKS	303	53105
NONELECTROLYTIC PLATING & COATING MACHINE-OPS	721	91926
NONELECTROLYTIC PLATING MACHINE-SETTERS & SET-UP	720	91923
NUCLEAR ENGINEERS	58	22117
NUCLEAR MEDICINE TECHNOLOGISTS	236	32914
NUCLEAR TECHNICIANS	98	24508
NUMERICAL MACHINE TOOL OPS--METAL, PLASTIC	703	91502
NURSE AIDES, ORDERLIES, ATTENDANTS	435	66008
NURSERY & GREENHOUSE MANAGER	18	15031
NURSING INSTRUCTORS, POSTSECONDARY	148	31114
OCCUPATIONAL THERAPISTS	214	32305
OCCUPATIONAL THERAPY ASSISTANTS	439	66021
OCCUPATIONS NOT CLASSIFIED	909	
OFFICE MACHINE, CASH REGISTER SERVICERS	556	85926
OFFICE MACHINE OPERATORS, NEC	365	56099
OFFSET LITHOGRAPHIC PRESS SETTERS	738	92512
OIL PUMPERS--EXCEPT WELL HEAD	867	97908
OPERATING ENGINEERS	883	97956
OPERATIONS & SYSTEMS RESEARCHERS--EX COMPUTER	111	25302
OPTICAL GOODS WORKERS, PRECISION	681	89917
OPTICIANS--DISPENSING, MEASURING	225	32514
OPTOMETRISTS	207	32108
ORDER CLERKS--MATERIALS, SERVICE	348	55323
ORDER FILLERS--WHOLESALE & RETAIL SALE	387	58026
ORDINARY SEAMEN AND MARINE OILERS	855	97517
OTHER SOCIAL SCIENCE RELATED WORKERS	124	27300
OTHER ELECTRICAL EQUIPMENT MECHANICS	535	85700
OTHER HAND WORKERS	798	93900
OTHER HEALTH PROFESSIONALS, PARAPROFS	230	32900
OTHER MANAGEMENT SUPPORT WORKERS	42	21900
OTHER PRECISION WORKERS	675	89900
OTHER PROFESSIONALS, PARAPROF, TECHNICAL	272	39999
OTHER TEACHERS AND INSTRUCTORS	184	31300
PACKAGING, FILLING MACHINE OPERATORS, TENDERS	786	92974
PAINT, COAT & SPRAY MACHINE SETTERS	778	92951
PAINTERS AND RELATED WORKERS	584	87400
PAINTERS, PAPERHANGERS--CONSTRUCTION	585	87402
PAINTERS, TRANSPORTATION EQUIPMENT	777	92947
PAINTING, COATING, DECORATING--HAND	814	93947
PAINTING, RELATED MACHINE OPERATORS, TENDERS	779	92953
PAPER GOODS MACHINE SETTERS, SET-UP OPERATORS	766	92914
PARALEGAL PERSONNEL	141	28305

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PARKING ENFORCEMENT OFFICERS	405	63021
PARKING LOT ATTENDANTS	862	97808
PARKS,REC,LEISURE,FITNESS STUDIES TEACHERS, POST	181	31258
PASTE UP WORKERS	659	89706
PATTERN AND MODEL MAKERS--METAL	631	89114
PATTERN AND MODEL MAKERS--WOOD	641	89302
PATTERN MARKERS--WOOD	642	89305
PATTERNMAKERS AND LAYOUT WORKERS	648	89502
PATTERNMAKERS, MODEL MAKERS, LAYOUT	678	89908
PAVING, TAMPING-EQUIPMENT OPERATORS	598	87708
PAYROLL AND TIMEKEEPING CLERKS	354	55341
PERIPHERAL EDP EQUIPMENT OPERATORS	362	56014
PERSONNEL CLERKS--EX PAYROLL	345	55314
PERSONNEL, TRAINING, LABOR-RELATIONS MANAGERS	4	13005
PERSONNEL, TRAINING, LABOR-RELATIONS SPECIALISTS	37	21500
PERSONNEL, TRAINING, LABOR-RELATIONS SPECIALISTS, NEC	41	21511
PERSONAL AND HOME CARE AIDES	461	68035
PEST CONTROLLERS AND ASSISTANTS	446	67008
PETROLEUM REFINERY, CONTROL PANEL OPERATORS	824	95014
PETROLEUM ENGINEERS	56	22111
PETROLEUM PUMP SYSTEM OPERATORS	823	95011
PETROLEUM TECHNICIANS	99	24511
PHARMACISTS	226	32517
PHARMACY AIDES	441	66026
PHARMACY TECHNICIANS	227	32518
PHILOSOPHY & RELIGION TEACHERS, POSTSECONDARY	179	31254
PHOTOENGRAVERS	662	89712
PHOTOENGRAVING, LITHOGRAPHING MACHINE OPERATORS	747	92545
PHOTOGRAPHERS	253	34023
PHOTOGRAPHIC PROCESSING MACHINE OPS & TENDERS	764	92908
PHOTOGRAPHIC PROCESS WORKER,PRECISION	680	89914
PHYSICAL SCIENCE TEACHERS, POSTSECONDARY	154	31209
PHYSICAL SCIENTISTS	83	24100
PHYSICAL SCIENTISTS, NEC	88	24199
PHYSICAL THERAPISTS	215	32308
PHYSICAL THERAPY ASSISTANTS & AIDES	438	66017
PHYSICAL, LIFE SCIENCE TECHNICIANS	95	24500
PHYSICAL, LIFE SCIENCE TECHNICIANS, NEC	100	24599
PHYSICIANS AND SURGEONS	205	32102
PHYSICIAN'S ASSISTANTS	224	32511
PHYSICISTS AND ASTRONOMERS	84	24102
PHYSICS TEACHERS, POSTSECONDARY	153	31206
PILE DRIVING OPERATORS	597	87705
PILOTS--SHIP	852	97508
PIPELAYERS	589	87508
PIPELAYING FITTERS	588	87505
PLANT AND SYSTEM OCCUPATIONS	819	95000
PLANT AND SYSTEM OPERATORS, NEC	831	95099
PLAST MOLDING, CASTING MACHINE SETTER	713	91902
PLASTERERS AND STUCCO MASONS	583	87317

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PLASTIC MOLDING, CASTING MACHINE OPS	714	91905
PLATEMAKERS	666	89718
PLUMBERS AND RELATED WORKERS	586	87500
PLUMBERS, PIPEFITTERS, STEAMFITTER	587	87502
PODIATRISTS	208	32111
POLICE AND DETECTIVE SUPERVISORS	395	61005
POLICE DETECTIVES	402	63011
POLICE PATROL OFFICERS	403	63014
POLITICAL SCIENCE TEACHERS, POSTSECONDARY	171	31236
PORTABLE MACHINE CUTTERS	808	93928
POSTAL MAIL CARRIERS	375	57305
POSTAL SERVICE CLERKS	376	57308
POSTMASTERS, MAIL SUPERINTENDENTS	9	15002
POSTSECONDARY TEACHERS	146	31100
POSTSECONDARY TEACHERS, NEC	183	31299
POWER DISTRIBUTORS AND DISPATCHERS	829	95028
POWER PLANT OPS--EX AUXILIARY EQUIPMENT	826	95021
POWER REACTOR OPERATORS	828	95026
POWERHOUSE, RELATED ELECTRICIANS	542	85721
PRESS MACHINE SETTERS--METAL, PLASTIC	696	91305
PRESSERS--DELICATE FABRICS	653	89517
PRESSERS--HAND	805	93921
PRESSING MACH OPS--TEXTILE, GARMENT	760	92728
PRINT PRESS SETTERS,SET UP OPS	737	92510
PRINT PRESS SETTERS,SET-UP OPS NEC	740	92519
PRINT REL SETTERS, SET-UP OPS, NEC	744	92529
PRINT, BINDING, RELATED MACHINE OPS, TENDER	749	92549
PRINTING PRESS MACHINE OPS, TENDER	746	92543
PRINTING WORKERS, NEC--PRECISION	669	89799
PRINTING WORKERS, PRECISION	656	89700
PRINTING, BINDING, RELATED WORKERS	736	92500
PROCUREMENT CLERKS	349	55326
PROD INSPECTORS, TESTERS, & GRADER	500	83005
PROD, CONST, OPER, MATERIAL HANDLING	490	80000
PROD, PLANNING, EXPEDITING CLERKS	381	58008
PRODUCERS, DIRECTORS, ACTORS	264	34056
PRODUCTION OCCUPATIONS, PRECISION	625	89000
PROFESSIONAL, PARAPROF, TECHNICAL	23	20000
PROOFREADERS AND COPY MARKERS	334	53911
PROPERTY AND REAL ESTATE MANAGERS	12	15011
PROTECTIVE SERVICE OCCUPATIONS	398	63000
PROTECTIVE SERVICE WORKERS, NEC	415	63099
PRUNERS	483	79033
PSYCHIATRIC AIDES	437	66014
PSYCHIATRIC TECHNICIANS	242	32931
PSYCHOLOGISTS	122	27108
PSYCHOLOGY TEACHERS, POSTSECONDARY	172	31237
PUBLIC ADMIN CHIEF EXECUTIVES, LEGISLATORS	20	19002
PUBLIC RELATIONS SPECIALISTS, PUBLICITY WRITERS	248	34008
PUMP OPERATORS	882	97953



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PUNCH MACHINE SETTERS--METAL, PLASTIC	695	91302
PURCHASING AGENTS AND BUYERS--FARM PRODUCTS	35	21305
PURCHASING AGENTS--EX WHOLESALE, RETAIL, FARM PRODS	36	21308
PURCHASING AGENTS AND BUYERS	33	21300
PURCHASING MANAGERS	5	13008
RADIATION THERAPISTS	235	32913
RADIO MECHANICS	533	85514
RADIO OPERATORS	269	39008
RADIOLOGIC TECHNOLOGISTS	237	32919
RAIL CAR REPAIRERS	522	85317
RAIL TRANSPORTATION WORKERS	841	97300
RAIL VEHICLE OPERATIVES, NEC	848	97399
RAIL YARD ENGINEERS AND RELATED	844	97308
RAILROAD BRAKE, SIGNAL, SWITCH OPERATORS	847	97317
RAILROAD CONDUCTORS, YARDMASTERS	842	97302
RAILROAD, TRANSIT POLICE, SPECIAL AGENTS	411	63038
RAIL-TRACK LAYING, MAINTENANCE EQUIPMENT OPS	600	87714
REAL ESTATE CLERKS	335	53914
RECEPTIONISTS, INFORMATION CLERKS	343	55305
RECREATION WORKERS	129	27311
RECREATIONAL THERAPISTS	218	32317
REFRACTORY MATERIALS REPAIRERS	513	85126
REFUSE COLLECTORS	903	98705
REGISTERED NURSES	221	32502
REINFORCING METAL WORKERS	582	87314
RELIGIOUS WORKERS	130	27500
RELIGIOUS WORKERS, NEC	133	27599
REPORTERS AND CORRESPONDENTS	249	34011
RESERVATION, TRANS TICKET AGENTS	328	53805
RESIDENTIAL COUNSELORS	127	27307
RESPIRATORY CARE PRACTITIONERS	213	32302
RIGGERS	559	85935
ROASTING, BAKING MACHINE OPERATORS--FOOD	768	92921
ROCK SPLITTERS, QUARRY	613	87908
ROLLING MACH SETTERS--METAL, PLASTIC	699	91314
ROOF BOLTERS	618	87923
ROOFERS	605	87808
ROTARY DRILL OPERATORS--OIL, GAS EXTRACT	614	87911
ROUSTABOUTS	617	87921
SAFETY ENGINEERS--EXCEPT MINING	64	22132
SALES AGENTS, PLACERS--INSURANCE	276	43002
SALES AGENTS--ADVERTISING	283	43023
SALES AGENTS--FINANCIAL SERVICES	280	43014
SALES AGENTS--REAL ESTATE	278	43008
SALES AGENTS--SELECTED BUSINESS SERVICES	281	43017
SALES AGENTS--SERVICE	275	43000
SALES AND RELATED OCCUPATIONS	273	40000
SALES AND RELATED WORKERS, NEC	297	49999
SALES ENGINEERS	286	49002
SALES REPRESENTATIVES, NON-SCIENTIFIC EX RET	288	49008

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SALES REPRESENTATIVES, SCIENTIFIC--EX RETAIL	287	49005
SALES REPRESENTATIVES, SERVICE--NEC	284	43099
SALESPERSONS, RETAIL	289	49011
SALESPERSONS--PARTS	290	49014
SAW MACHINE TOOL SETTERS--METAL, PLASTIC	688	91102
SAWING MACHINE OPERATORS AND TENDERS	733	92308
SAWING MACHINE SETTERS, SET-UP OPERATORS	731	92302
SCANNER OPERATORS	664	89715
SCREEN PRINT MACHINE SETTERS, SET-UP	742	92524
SECRETARIAL, GENERAL OFFICE OCCUPATIONSS	336	55000
SECRETARIES	337	55100
SECRETARIES, GENERAL	340	55108
SECRETARIES, LEGAL	338	55102
SECRETARIES, MEDICAL	339	55105
SELECTED ROAD, RAIL AND RELATED	595	87700
SEPARATING, STILL MACHINE OPS, TENDERS	782	92962
SEPTIC TANK, SEWER PIPE SERVICERS	590	87511
SERVICE OCCUPATIONS	392	60000
SERVICE STATION ATTENDANTS	861	97805
SERVICE UNIT OPERATORS	616	87917
SERVICE WORKERS, NEC	465	69999
SEWERS--HAND	806	93923
SEWING MACHINE OPERATORS--GARMENT	756	92717
SEWING MACHINE OPS--NON-GARMENT	757	92721
SHAMPOOERS	453	68011
SHEAR MACHINE SETTERS--METAL, PLASTIC	697	91308
SHEET METAL DUCT INSTALLERS	604	87805
SHEET METAL WORKERS	637	89132
SHERIFFS AND DEPUTY SHERIFFS	409	63032
SHIP ENGINEERS	856	97521
SHIPFITTERS	633	89121
SHOE AND LEATHER WKRS--PRECISION	651	89511
SHOE SEWING MACHINE OPS, TENDERS	758	92723
SHUTTLE CAR OPERATORS	876	97935
SIGNAL OR TRACK SWITCH MAINTAINERS	532	85511
SLAUGHTERERS AND BUTCHERS	671	89802
SMALL ENGINE SPECIALISTS	526	85328
SOCIAL SCI, RECREATION, RELIGIOUS	118	27000
SOCIAL SCIENCE TEACHERS, POSTSECONDARY	165	31230
SOCIAL SCIENCES TEACHERS, POSTSECONDARY,	173	31239
SOCIAL SCIENTISTS, NEC	123	27199
SOCIAL SCIENCE--INCL URBAN, REGIONAL PLANNERS	119	27100
SOCIAL WORKERS--EX MEDICAL, PSYCHIATRIC	126	27305
SOCIAL WORK TEACHERS, POSTSECONDARY	177	31247
SOCIAL WORKERS--MEDICAL, PSYCHIATRIC	125	27302
SOLDERERS AND BRAZERS	804	93917
SOLDERING, BRAZING MACH OPS, TENDERS	710	91711
SOLDERING, BRAZING MACH SETTERS	709	91708
SPEC MATERL PRINTING MACH SETTERS	741	92522
SPECIAL AGENTS--INSURANCE	39	21505

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SPEECH PATHOLOGISTS, AUDIOLOGISTS	217	32314
SPOTTERS--DRY CLEANING	652	89514
SPRAYERS, APPLICATORS	484	79036
STATEMENT CLERKS	310	53126
STATION INSTALLERS--TELEPHONE	544	85726
STATIONARY ENGINEERS	830	95032
STATISTICAL CLERKS	350	55328
STATISTICIANS	113	25312
STENOGRAPHERS AND/OR COURT REPORTER	342	55302
STEVEDORES--EX EQUIPMENT OPERATORS	902	98702
STOCK CLERKS--SALES FLOOR	292	49021
STOCK CLERKS--STOCKROOM, WAREHOUSE	386	58023
STONE MASONS	579	87305
STRIPPERS	665	89717
STRUCTURAL METAL WORKERS	607	87814
SUBWAY AND STREETCAR OPERATORS	846	97314
SURGICAL TECHNICIANS	241	32928
SURVEYING AND MAPPING SCIENTISTS	72	22311
SURVEYING AND MAPPING TECHNICIANS	80	22521
SWITCHBOARD OPERATORS	368	57102
SYSTEMS ANALYSTS--ELECTRIC DATA PROCESSING	103	25102
TANK CAR AND TRUCK LOADERS	866	97905
TAPERS	572	87111
TAX EXAMINERS, COLLECTORS, REVENUE AGENTS	47	21914
TAX PREPARERS	29	21111
TAXI DRIVERS AND CHAUFFEURS	838	97114
TEACHER AIDES & EDUCATIONAL ASSISTANTS, CLERICAL	332	53905
TEACHER AIDES, PARAPROFESSIONAL	202	31521
TEACHERS AND INSTRUCTORS, NEC	194	31399
TEACHERS, EDUCATORS, LIBRARIANS	145	31000
TEACHERS, KINDERGARTEN	186	31304
TEACHERS, PRESCHOOL	185	31303
TEACHERS--ELEMENTARY SCHOOL	187	31305
TEACHERS--SECONDARY SCHOOL	188	31308
TEACHERS--SPECIAL EDUCATION	189	31311
TEACHERS--VOCATIONAL ED AND TRAINING	190	31314
TECHNICAL ASSISTANTS--LIBRARY	197	31505
TECHNICAL WRITERS	247	34005
TELEGRAPH AND TELETYPE OPERATORS	371	57111
TELEGRAPH, TELETYPE INSTALLERS	531	85508
TELEMARKETERS, SOLICITORS & RELATED	294	49026
TELEPHONE, CABLE TV INSTALLERS	536	85702
TELLERS	302	53102
TEXTILE, APPAREL, FURNISHINGS, NEC--PRECISION	655	89599
TEXTILE BLEACHING, DYEING MACHINE OPERATORS	755	92714
TEXTILE DRAW-OUT MACH OPERATORS, TENDERS	754	92711
TEXTILE MACHINE SETTERS, SET-UP OPERATORS	751	92702
TEXTILE OPERATORS, TENDERS--WIND, TWIST, KNIT	752	92705
TEXTILE, APPAREL, FURNISHINGS, PRECISION	647	89500
TEXTILE, RELATED SETTERS, OPERATORS	750	92700



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
THERAPISTS	212	32300
THERAPISTS, NEC	219	32399
TIMBER CUTTING AND LOGGING	469	73000
TIMBER CUTTING AND RELATED, NEC	474	73099
TIRE BUILDING MACHINE OPERATORS	765	92911
TIRE REPAIRERS AND CHANGERS	564	85953
TITLE EXAMINERS AND ABSTRACTORS	143	28311
TITLE SEARCHERS	142	28308
TOOL AND DIE MAKERS	627	89102
TOOL GRINDERS, FILERS, SHARPENERS	630	89111
TRAFFIC TECHNICIANS	268	39005
TRAFFIC, SHIPPING, RECEIVING CLERKS	388	58028
TRANS AND RELATED WORKERS, NEC	863	97899
TRANS ATTENDANTS--EX FLIGHT	459	68028
TRANS, MATERIAL MOVING EQUIPMENT OPS, NEC	885	97999
TRANS, MATERIAL MOVING MACHINE OPS	832	97000
TRANSIT CLERKS	304	53108
TRANSPORTATION AGENTS	382	58011
TRANSPORTATION INSPECTORS	501	83008
TRAVEL AGENTS	282	43021
TRAVEL CLERKS	327	53802
TRUCK DRIVERS, HEAVY	834	97102
TRUCK DRIVERS, LIGHT	835	97105
TYPESETTING, COMPOSING MACHINE OPS	745	92541
TYPISTS, INCLUDING WORD PROCESSING	344	55307
U.S. MARSHALLS	407	63026
UNDERGROUND MINE MACHINE MECHANICS	509	85117
UNDERWRITERS	26	21102
UPHOLSTERERS	650	89508
URBAN AND REGIONAL PLANNERS	121	27105
USHERS, LOBBY ATTENDANTS	456	68021
VEHICLE WASHERS, EQUIPMENT CLEANERS	907	98905
VETERINARY ASSISTANTS	486	79806
VETERINARY TECHNICIANS	243	32951
VETS AND VETERINARY INSPECTORS	210	32114
VOCATIONAL & EDUCATIONAL COUNSELOR	200	31514
WAITERS AND WAITRESSES	419	65008
WARDROBE ATTENDANTS	460	68032
WATCH ASSEMBLERS, RELATED--PRECISION	796	93117
WATCHMAKERS	553	85917
WATER TRANSPORTATION WORKERS	849	97500
WATER TREATMENT PLANT OPERATORS	820	95002
WEIGHERS, MEASURERS--RECORDKEEPING	384	58017
WELDERS AND CUTTERS	803	93914
WELDING MACH OPERATORS AND TENDERS	708	91705
WELDING MACH SETTERS, SET-UP OPS	707	91702
WELFARE ELIGIBILITY WORKERS, INTERVIEWERS	319	53502
WELL HEAD PUMPERS	868	97911
WHOLESALE AND RETAIL BUYERS--EX FARM PRODS	34	21302
WOOD MACHINISTS	643	89308

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
WOODWORK MACH OPS,TNDRS--EX SAWING	735	92314
WOODWORK MACH SETTERS--EX SAWING	734	92311
WOODWORKERS, NEC--PRECISION	646	89399
WOODWORKERS, PRECISION	640	89300
WOODWORKING MACHINE SETTERS, OPS	730	92300
WORKERS, PRECISION--NEC	685	89999
WRITERS AND EDITORS	246	34002
WRITERS, ARTISTS, ENTER, ATHLETES	245	34000





# Standard Industrial Classification Manual

The Standard Industrial Classification (SIC) is a nationally standardized system for identifying and coding business establishments according to their industrial activity. An "establishment" is an economic unit, generally located at a single physical location, where business is conducted or where services or industrial operations are performed. The Standard Industrial Classification (SIC) Manual is the reference guide used to accurately apply and/or understand the classification coding system.

The SIC Manual's format separates industries into ten broad divisions, such as manufacturing and retail trade. Within those broad groupings are more specific two-digit codes, as well as more detailed three-digit and four-digit codes, that identify specific industries. Brief narratives describe the kinds of establishments contained in each classification category.

## Suggestions for Users

The SIC Manual facilitates the collection, analysis and publication of information about business establishments. This standardized system is used throughout the United States to promote uniformity in the publications of private and governmental agencies. The Employment Development Department's field office personnel use the manual to assign SIC codes to employers

to aid in providing services. Trade associations and private industry use the manual in reference books, such as the California Manufacturers Register.

The manual can help one to understand the composite industries summarized in publications. However, all public sector workers are usually grouped together into a category called "government", which includes federal, state and local government, and state and local education.

The U.S. Department of Labor, Occupational Safety and Health Administration provides SIC information on the Internet at <http://www.osha.gov/oshstats/sicser.html>

The SIC Manual may be purchased from U.S. Government Bookstores, Bureau of Labor Statistics, or the Superintendent of Documents in Los Angeles or San Francisco. For information about purchasing this manual, contact:

U.S. Government Bookstore  
Marathon Plaza, Room 141-S  
303 2nd Street  
San Francisco, CA 94107  
Phone - (415) 512-2770  
Fax - (415) 512-2776  
<http://access.gpo.gov>

# North American Industry Classification System

The United States has a new industry classification system. The North American Industry Classification System (NAICS) will soon replace the U.S. Standard Industrial Classification (SIC) system.

NAICS is the first-ever North American Industry classification system. The system was developed by the U.S., Canada, and Mexico to provide comparable statistics across the three countries. For the first time, government and business analysts will be able to compare directly industrial production statistics collected and published in the three North American Free Trade Agreement countries.

NAICS will reshape the way we view our changing economy. It is a unique, all-new system for classifying business establishments. It is the first economic classification system to be constructed based on a single economic concept. Economic units that use like processes to produce goods or services are grouped together. This "production-oriented" system means that statistical agencies in the United States will produce data that can be used for:

- measuring productivity, unit labor costs, and the capital intensity of production;
- constructing input-output relationships and;
- estimating employment-output relationships and other such statistics that require that inputs and outputs be used together.

NAICS responds to increasing and serious criticism about the SIC. NAICS reflects the structure of today's economy in the United States, Canada, and Mexico, including the emergence and growth of the service sector and new and advanced technologies. It is a flexible system that allows each country to recognize important industries below the level at which comparable data will be shown for all three countries.

The 1997 Economic Census will provide the first official NAICS-based statistics. Advance statistics will appear in early 1999. A report in 2000 will show relationships between NAICS and SIC industries.

Implementation by Federal agencies will be in phases. Some agency programs will convert to NAICS as early as 1999, others as late as 2004.

## How is NAICS better?

NAICS will make economic statistics more useful. It will improve basic benchmark and current performance statistics, like manufacturers' shipments, retail sales, and service receipts. It will improve statistics by providing an all-new industry classification system that is more:

*Relevant.* NAICS identifies new industries, revises concepts, and reorganizes classifications so that industry-classified statistics highlight businesses that contribute most to our economy.



**Consistent.** NAICS classifies businesses into industries based on one principle instead of several; the principle that businesses using similar production processes are classified together.

**Comparable.** NAICS provides first-ever comparability in North American industry classifications and economic statistics.

**Flexible.** NAICS classifications will be updated regularly to keep pace with changes in our economy; every 5 years, all three North American countries will review NAICS and make needed revisions.

### **How NAICS will affect the economic data you use.**

Every sector of the economy has been restructured and redefined:

- A new *Information* sector combines communications, publishing, motion picture and sound recording, and online services, recognizing our information-based economy.
- *Manufacturing* is restructured to recognize new high-tech industries. A new subsector is devoted to computers and electronics, including reproduction of software.
- *Retail Trade* is redefined. In addition, eating and drinking places are transferred to a new *Accommodation and Food Services* sector.
- The difference between *Retail* and *Wholesale* is now based on how each store conducts business. For example, many computer stores are reclassified from wholesale to retail.
- Nine new service sectors and 250 new service industries are recognized.

### **All new numbering system**

Numeric codes for each NAICS classification are completely different from those of the SIC. The new numbering system underscores the "clean slate" approach taken in NAICS and allows its classification changes to be fully developed. The new system provides five levels of classification (up from four in the SIC), detailed codes that have a maximum of six-digits (up from four in the SIC) and detailed classifications called "U.S. Industry" (instead of "Industry" in the SIC). These changes require new numbers, even for industries that continue without change. For example, both NAICS and SIC include the detailed industry, "Passenger car rental." However, in NAICS, it has code number 532111, and in the SIC, it was code number 7514. While all NAICS numeric codes are new, like the SIC, they are organized into multi-level hierarchical classification groups that build up from the detailed industry level. The additional level of classification and expanded number of digits permit NAICS to account for the increased number of classifications, provide flexibility in structuring industry classification groups, and allow for country-based variations in classification detail.

A variety of information resources are available to help users of business statistics understand and use NAICS. Additional information, answers to frequently asked questions, and updated agency implementation plans are available at the Census Bureau's Internet site:

**[www.census.gov/naics](http://www.census.gov/naics)**

Answers to specific classification and data program inquiries may also be addressed to industry experts at:

**Phone: 1-888-75NAICS**  
**E-mail: [naics@census.gov](mailto:naics@census.gov)**



# Projection Methods And Economic Assumptions

The employment projection process consists of two phases – first, projections for employment by industry are made using both historical data and current information about the economy. Next, the industry projections become a primary data source used to project changes in occupational employment.

Changes in occupational employment over time result from two principal sources: industry growth and technological change. In developing occupational employment projections, both of these components must be addressed.

The following is a discussion of how industry and occupational projections are developed, beginning with a description of data sources and followed by a description of the steps involved.

## Principal Data Sources

### Employment by Industry

The source of the official historical industry employment series used for industry projections for the state and each county is the Current Employment Statistics (CES) program. This is a Federal/State co-operative program that compiles monthly estimates of industry employment groupings for the state and each county. These monthly industry employment estimates are based primarily on employer sample surveys.

A second source used in industry forecasts is the Covered Employment and Wage Data, or ES-202 program. Essentially, this program extracts employment and wage information from quarterly tax returns filed by each California employer covered by unemployment insurance. Each employer has been assigned a specific industry and county code and these data are compiled to provide the 'actual' industry employment levels for each industry and county. These data are then used for benchmarking the monthly industry employment

estimates made in the CES program. This is also a Federal/State co-operative program.

### Employment by Occupation

Occupational employment estimates are based on survey data collected through the Occupational Employment Statistics (OES) program. The OES survey is an annual mail survey of non-farm employers conducted by the Employment Development Department in cooperation with the U.S. Bureau of Labor Statistics. The survey is based on a sample designed to represent the universe of employers in each state. In California, data are collected for over 800 occupations at the three-digit SIC level of detail. The survey samples approximately 110,000 business establishments over a three year period.

## The Process

### Industry Projections

Industry projections are first developed at aggregated levels (industry groupings) for the state and each county based on the Current Employment Statistics employment series.

Second, these aggregated industry projections are then broken down into more industry specific detail using the ES-202 data. The industry specific projections then become the primary source from which occupational projections are developed by using industry staffing patterns data. The following steps outline the process:

- Approximately every two years, industry employment projections are produced for the nation by the Bureau of Labor Statistics.
- Industry projections are then developed for the State using input from the national forecast and the historical industry employment series for the State.

- County industry projections are then developed using input from the state forecast and the historical employment series for each county.
- State projections are developed for ten years from the base period and county projections are developed for seven years from the base period.
- The State forecasts are reviewed by Labor Market Information Division (LMID) industry analysts, California's Department of Finance, and academics.
- County forecasts are reviewed by local area consultants who provide up to date information regarding recent developments in each county that would not normally be accounted for in the model.

### Occupational Projections

The distribution of industry employment by occupation is performed in three steps.

- OES survey responses are summarized by industry and matched with the appropriate SIC in the area. (In cases where local OES responses are not available, either state-wide responses or another area's responses are substituted.)
- The survey data are adjusted to total to the annual average employment level for each industry. This results in estimates of employment by occupation within the three-digit SICs for the base year.
- Finally, base year staffing patterns are adjusted to account for projected shifts in the occupational distributions due to technological changes. These projected changes are derived from special studies conducted by the U.S. Bureau of Labor Statistics. Applying these changes to the base year staffing patterns results in staffing patterns by three-digit SIC for the projected year. Projected year staffing patterns are applied to the industry employment projections

to produce occupational employment projections within three-digit SICs. Data by occupation are then summed to get the occupational estimates. The difference between the base year occupation estimates and the projected year projections represents the job growth resulting from industry growth and from technological change. (Change factors do not try to predict regulatory changes.)

Demand for workers is also created by openings that result when workers leave their jobs to enter other occupations, retire, or leave the labor force for other reasons. These openings, termed *separations*, are important because, in most occupations, they exceed job openings resulting from employment growth. Even occupations that are projected to decline usually provide job openings due to separations. Separations are developed from separation rates compiled on a national basis every two years by the Bureau Of Labor Statistics.

### **Economic Assumptions**

The industry and occupational projections in this report are based on the following assumptions:

- ✓ The institutional framework of the U.S. economy will not change radically.
- ✓ Recent technological and scientific trends will continue.
- ✓ The long-term employment patterns will continue in most industries.
- ✓ Federal, state, and local government agencies will continue to operate under budgetary constraints.
- ✓ No major events, such as war, will occur that will significantly alter the industrial structure of the economy, the occupational staffing patterns, or the rate of long-term growth.
- ✓ Population growth rates and age distributions will not differ significantly from Department of Finance projections presently available.
- ✓ Attitudes toward work, education, income, and leisure will not change significantly.





# *Projections & Planning Information*

## **Module E:**

# **Wages**



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# Occupational Employment Statistics Wage Survey

The Occupational Employment Statistics (OES) survey is an annual mail survey measuring occupational employment and occupational wage rates for wage and salary workers in nonfarm establishments by industry. The survey samples approximately 37,000 establishments per year, taking 3 years to fully collect the sample of 113,000 establishments in California.

The 2000 OES survey is the second year to use the new Standard Occupational Classification (SOC) system to identify occupational categories. These survey samples are based only on two years of data collected in the 1999 and 2000 survey. Surveys prior to 1999 used the Occupational Employment Statistics (OES) classification system. Of the nearly 770 SOC occupations, 374 are a direct match with the OES classification system definitions. The rest are newly defined SOC occupations. The SOC structure and definitions can be found at the Bureau of Labor Statistics (BLS) SOC website at [www.bls.gov](http://www.bls.gov).

The wage data for all occupations have been updated to the third quarter of 2001 by applying the Employment Cost Index of the 2000 SOC wage database. The occupational employment estimates are for 2000. A more complete set of technical notes for the 2000 OES survey is available at the BLS website.

## 'Employment' Definition

The OES survey defines employment as the number of workers who can be classified as full-time or part-time employees; workers on paid vacations or other types of leave; workers on unpaid or short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station, regardless of whether that unit prepares their paycheck. The survey excludes the self-employed, owners/partners of unincorporated firms, and unpaid family workers. Employees are reported in the occupation in which they are working, not necessarily for which they were trained.

## Business Establishment Description

The OES survey uses the Standard Industrial Classification (SIC) system to classify all an economic unit which processes goods or provides services, such as a factory or store. The establishment is generally at a single physical location and is engaged primarily in one type of economic activity.

The scope of the survey includes establishments in SIC codes 07, 10, 12 to 17, 20 to 42, 44 to 65, 67, 70, 72, 73, 75, 76, 78 to 84, 86, 87, and 89 covering agricultural services; mining; construction; manufacturing; transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; services; and government.

## Source of Sample Selection

The California Unemployment Insurance (UI) file provided the universe from which the OES survey draws its sample. The employment benchmark was obtained from reports submitted by employers to the UI program. In some nonmanufacturing industries, supplemental sources are used for establishments not reporting to the UI program.

The OES survey frame is stratified by area, industry and size class. Size classes are defined as follows:

<u>Size Class</u>	<u>Number of Employees</u>
1	1 to 4
2	5 to 9
3	10 to 19
4	20 to 49
5	50 to 99
6	100 to 249
7	250 and above

UI reporting units with 250 or more employees are sampled with certainty across a 3-year period. Generally, one-third of the certainty units are sampled each year in each state. There are some states that sample more than one-third of their certainty units during one survey year.

## Terms and Concepts

**Employment** represents the estimate of total wage and salary employment in an occupation across the industries in which it was surveyed. The OES survey form contains between 50 and 225 SOC occupations selected on the basis of the industry classification and size of the sampled establishments. To reduce paperwork and respondent burden, no survey form contains every SOC occupation. Thus, data for specific occupations are collected from establishments within industries that are the predominant employers of labor in those occupations.

**Wages** for the OES survey are straight-time gross pay, exclusive of premium pay. Included are base rate, cost-of-living allowances, guaranteed pay, hazardous duty pay, incentive pay including commissions and production bonuses, tips, and on-call pay. Excluded are back pay, jury duty pay, overtime pay, severance pay, shift differentials, non-production bonuses, employer cost of supplementary benefits, and tuition reimbursements.

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation per each wage range. The wage intervals are as follows:

Interval	Hourly Wage	Annual Wage
A	Under \$6.75	Under \$14,040
B	\$6.75 to 8.49	\$14,040 to 17,679
C	\$8.50 to 10.74	\$17,680 to 22,359
D	\$10.75 to 13.49	\$22,360 to 28,079
E	\$13.50 to 16.99	\$28,080 to 35,359
F	\$17.00 to 21.49	\$35,360 to 44,719
G	\$21.50 to 27.24	\$44,720 to 56,679
H	\$27.25 to 34.49	\$56,680 to 71,759
I	\$34.50 to 43.74	\$71,760 to 90,999
J	\$43.75 to 55.49	\$91,000 to 115,439
K	\$55.50 to 69.99	\$115,440 to 145,599
L	\$70.00 and over	\$145,600 and over

Wages are calculated using wage data from establishments in the industries that are the predominant employers of an occupation. Industries that do not typically employ workers in a given occupation are not included in the calculation of the mean and median wage.

**Mean Hourly Wage** is the estimated total wages for an occupation divided by its weighted survey employment. When the wages for an occupation are concentrated in the upper wage interval, it is not possible to calculate a reliable mean. In those instances, both the mean hourly wage and the mean annual wage are replaced by a "(3)" and the user is referred to the appropriate footnote. There are a small number of occupations where only an annual wage figure is provided; the workers in these occupations are generally paid on an annual basis, and their annual wage has been directly calculated from the reported survey data. Occupations that typically have a work-year of less than 2,080 hours include musical and entertainment occupations, aircraft pilots, flight attendants, and teachers. These occupations are identified in the data tables with "(2)" in the hourly wage cells.

**Median Hourly Wage** is the estimated 50th percentile of the distribution of wages; 50 percent of workers in an occupation earn wages below the median wage, and 50 percent earn wages above the median wage.

**Entry-Level Hourly Wage** is the mean of the first third of the wage distribution. This calculation is provided as a proxy for an entry-level wage.

**First Quartile Wage** is the estimated 25th percentile of the distribution of wages; 25 percent of workers in an occupation earn wages below the first quartile wage, and 75 percent earn wages above the first quartile wage.

**Third Quartile Wage** is the estimated 75th percentile of the distribution of wages; 75 percent of workers in an occupation earn wages below the third quartile wage, and 25 percent earn wages above the third quartile wage.

**Metropolitan Area** The general concept of a metropolitan area (MA) is one of a large population nucleus, together with adjacent communities that have a high degree of economic and social integration with that nucleus. Some MAs are defined around two or more nuclei. The MAs are designated and defined by the Federal Office of Management and Budget, following a set of official published standards. These standards were developed by



the Interagency Federal Executive Committee on Metropolitan Areas, with the aim of producing definitions that are as consistent as possible for all MAs nationwide.

***Metropolitan Statistical Area (MSA)*** A MSA comprises one or more central counties. A MSA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. The title of a MSA contains the name of its largest city and up to two additional city names, provided that the additional places meet specified levels of population, employment and commuting. Generally a city of 250,000 or more is in the title, regardless of other criteria.

***Primary Metropolitan Statistical Area (PMSA)*** The criteria that designates and defines a MSA also designates and defines a PMSA. If an area that qualifies as a MA has more than one million persons, primary metropolitan statistical areas (PMSAs) may be defined within it. PMSAs consist of a large urbanized county or cluster of counties that demonstrate very strong internal economic and social links, in addition to close ties to other portions of the larger area. The title of a PMSA may contain up to three place names, or up to three county names, sequenced in order of population.

***Consolidated Metropolitan Statistical Area (CMSA)*** A CMSA consists of two or more Primary Metropolitan Statistical Areas (PMSAs).



# Occupational Employment Statistics (OES) Survey Results

## Santa Rosa PMSA

### Sonoma County

These survey data are from the 2001 Occupational Employment Statistics (OES) survey. The wages have all been updated to the third quarter of 2002 by applying the US Department of Labor's Employment Cost Index to the 2001 wages. Occupations are classified using the Standard Occupational Classification (SOC) codes. For details of the methodology, see the Overview of the OES Survey at [http://www.calmis.ca.gov/file/occup\\$/oes\\$.htm](http://www.calmis.ca.gov/file/occup$/oes$.htm)

(Sorted by Occupational Title)

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-2011	Accountants and Auditors	\$18.00	\$25.88	\$19.21	\$23.62	\$30.77
11-3011	Administrative Services Managers	\$15.22	\$25.45	\$17.00	\$22.26	\$31.98
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	\$15.25	\$21.09	\$16.01	\$19.45	\$26.20
11-2011	Advertising and Promotions Managers	\$18.99	\$33.11	\$22.27	\$29.69	\$43.14
41-3011	Advertising Sales Agents	\$13.12	\$28.40	\$15.09	\$21.91	\$35.56
19-4011	Agricultural and Food Science Technicians	\$12.61	\$14.51	\$12.48	\$13.46	\$14.47
17-2021	Agricultural Engineers	\$24.56	\$26.07	\$23.87	\$25.73	\$27.60
45-2091	Agricultural Equipment Operators	\$8.82	\$11.47	\$9.21	\$10.62	\$13.00
49-3011	Aircraft Mechanics and Service Technicians	\$10.85	\$20.00	\$12.15	\$19.32	\$23.79
27-1099	All Other Art and Design Workers	\$10.08	\$12.79	\$10.82	\$12.12	\$13.86
37-9099	All Other Building and Grounds Cleaning and Maintenance Workers	\$8.83	\$13.19	\$9.68	\$12.52	\$16.41
47-4999	All Other Construction Trades and Related Workers	\$15.12	\$18.68	\$15.82	\$18.30	\$21.46
21-9099	All Other Counselors, Social and Religious Workers	\$9.37	\$14.67	\$10.28	\$12.68	\$18.03
43-4999	All Other Financial, Information, and Record Clerks	\$10.79	\$17.24	\$12.40	\$15.91	\$21.28



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-3099	All Other Food Processing Workers	\$6.84	\$9.06	\$7.17	\$9.49	\$10.78
29-9199	All Other Health Professionals and Technicians	\$6.75*	\$9.11	\$6.90	\$7.63	\$8.74
23-9099	All Other Legal and Related Workers	\$14.47	\$20.87	\$15.90	\$20.13	\$26.03
43-5199	All Other Material Recording, Scheduling, Dispatching, and Distributing Workers	\$11.93	\$18.52	\$12.77	\$15.53	\$22.10
43-9999	All Other Secretaries, Administrative Assistants, and Other Office Support	\$7.19	\$12.45	\$7.49	\$10.35	\$16.55
25-3999	All Other Teachers, Primary, Secondary, and Adult	(2)	(2)	(2)	(2)	(2)
39-3091	Amusement and Recreation Attendants	\$7.15	\$9.00	\$7.45	\$8.54	\$10.06
39-2011	Animal Trainers	\$7.79	\$11.02	\$7.96	\$9.76	\$12.90
27-3010	Announcers	\$7.56	\$14.29	\$8.18	\$11.86	\$17.05
13-2021	Appraisers and Assessors of Real Estate	\$18.73	\$29.58	\$21.07	\$28.46	\$37.12
17-1011	Architects, Except Landscape and Naval	\$20.55	\$31.26	\$23.67	\$28.28	\$34.39
17-3011	Architectural and Civil Drafters	\$16.78	\$21.60	\$18.66	\$21.09	\$24.94
17-0000	Architecture and Engineering Occupations	\$18.18	\$29.57	\$20.66	\$28.39	\$37.21
25-4010	Archivists, Curators, and Museum Technicians	\$14.15	\$24.34	\$17.91	\$22.19	\$35.94
27-1011	Art Directors	\$22.08	\$29.28	\$25.51	\$31.05	\$34.16
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	\$9.45	\$20.40	\$10.76	\$16.75	\$25.98
51-2099	Assemblers and Fabricators, All Other	\$7.24	\$13.13	\$7.87	\$12.65	\$18.64
27-4011	Audio and Video Equipment Technicians	\$6.75*	\$11.37	\$6.78	\$9.15	\$14.01
49-3021	Automotive Body and Related Repairers	\$16.24	\$22.45	\$19.02	\$23.93	\$26.94
49-3023	Automotive Service Technicians and Mechanics	\$13.68	\$19.83	\$15.30	\$19.27	\$24.42

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
39-6011	Baggage Porters and Bellhops	\$6.75*	\$8.07	\$7.15	\$7.98	\$8.71
51-3011	Bakers	\$9.23	\$12.21	\$10.03	\$11.92	\$14.05
35-3011	Bartenders	\$7.67	\$8.33	\$7.45	\$7.98	\$8.52
49-3091	Bicycle Repairers	\$7.22	\$10.86	\$8.25	\$10.90	\$13.44
43-3011	Bill and Account Collectors	\$10.72	\$15.97	\$12.36	\$15.25	\$18.28
43-3021	Billing and Posting Clerks and Machine Operators	\$11.57	\$14.87	\$12.54	\$14.78	\$16.86
51-5011	Bindery Workers	\$8.33	\$11.41	\$9.35	\$10.87	\$13.38
19-4021	Biological Technicians	\$13.64	\$16.27	\$14.13	\$15.59	\$17.04
43-3031	Bookkeeping, Accounting, and Auditing Clerks	\$11.81	\$16.17	\$13.28	\$15.90	\$18.63
43-4011	Brokerage Clerks	\$12.61	\$17.91	\$13.48	\$16.21	\$20.66
13-2031	Budget Analysts	\$21.68	\$30.71	\$24.23	\$29.39	\$37.91
37-0000	Building and Grounds Cleaning and Maintenance Occupations	\$7.32	\$10.99	\$8.05	\$9.97	\$13.18
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	\$14.46	\$20.36	\$16.11	\$19.98	\$24.27
53-3021	Bus Drivers, Transit and Intercity	\$9.46	\$12.30	\$10.06	\$11.90	\$14.74
13-0000	Business and Financial Operations Occupations	\$15.76	\$25.44	\$18.07	\$23.39	\$30.17
13-1199	Business Operations Specialists, All Other	\$13.93	\$23.84	\$16.12	\$22.17	\$29.22
51-3021	Butchers and Meat Cutters	\$9.54	\$16.02	\$11.39	\$17.06	\$20.56
51-7011	Cabinetmakers and Bench Carpenters	\$9.35	\$14.26	\$10.41	\$13.53	\$17.17
29-2031	Cardiovascular Technologists and Technicians	\$15.67	\$21.77	\$17.68	\$22.89	\$26.26
43-5011	Cargo and Freight Agents	\$12.25	\$17.31	\$13.87	\$16.61	\$21.43

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
47-2031	Carpenters	\$14.62	\$22.02	\$17.04	\$21.18	\$26.93
41-2011	Cashiers	\$7.33	\$10.80	\$7.65	\$8.97	\$12.36
47-2051	Cement Masons and Concrete Finishers	\$14.10	\$19.35	\$15.64	\$18.94	\$23.68
35-1011	Chefs and Head Cooks	\$14.09	\$18.78	\$16.20	\$18.70	\$21.42
17-2041	Chemical Engineers	\$27.10	\$40.50	\$30.58	\$36.01	\$47.08
51-9011	Chemical Equipment Operators and Tenders	\$10.18	\$14.34	\$10.64	\$14.17	\$17.44
19-4031	Chemical Technicians	\$10.96	\$16.13	\$12.23	\$15.65	\$19.49
19-2031	Chemists	\$16.94	\$22.64	\$18.33	\$21.05	\$26.36
11-1011	Chief Executives	\$32.49	(3)	\$38.12	\$57.17	>\$70.00
39-9011	Child Care Workers	\$8.21	\$10.24	\$9.00	\$10.27	\$11.58
21-1021	Child, Family, and School Social Workers	\$10.97	\$16.18	\$12.02	\$15.18	\$19.62
29-1011	Chiropractors	\$36.21	\$55.53	\$40.77	\$58.46	\$58.47
17-3022	Civil Engineering Technicians	\$17.33	\$24.07	\$19.38	\$23.66	\$28.38
17-2051	Civil Engineers	\$24.70	\$33.25	\$26.96	\$32.75	\$39.58
13-1031	Claims Adjusters, Examiners, and Investigators	\$17.36	\$22.30	\$18.79	\$21.83	\$25.77
53-7061	Cleaners of Vehicles and Equipment	\$6.75*	\$8.26	\$7.02	\$7.93	\$9.00
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	\$7.56	\$12.62	\$8.56	\$13.74	\$16.14
21-2011	Clergy	\$10.72	\$19.89	\$14.25	\$21.01	\$26.53
19-3031	Clinical, Counseling, and School Psychologists	\$15.31	\$25.70	\$20.18	\$26.26	\$32.23



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	\$9.63	\$14.34	\$10.20	\$12.17	\$17.30
51-2021	Coil Winders, Tapers, and Finishers	\$8.43	\$10.32	\$8.99	\$9.95	\$10.98
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	\$13.65	\$18.40	\$15.42	\$18.72	\$21.75
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	\$7.19	\$8.30	\$7.30	\$7.95	\$8.60
27-1021	Commercial and Industrial Designers	\$15.64	\$20.78	\$16.70	\$20.36	\$23.81
21-0000	Community and Social Services Occupations	\$10.44	\$16.19	\$11.61	\$14.51	\$19.55
13-1072	Compensation, Benefits, and Job Analysis Specialists	\$17.95	\$25.03	\$20.08	\$23.99	\$27.88
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportati	\$14.75	\$21.58	\$16.09	\$19.38	\$25.00
11-3021	Computer and Information Systems Managers	\$27.14	\$44.01	\$32.32	\$42.44	\$56.03
15-0000	Computer and Mathematical Occupations	\$17.82	\$31.82	\$21.12	\$29.28	\$40.85
17-2061	Computer Hardware Engineers	\$22.90	\$34.33	\$26.00	\$34.44	\$42.16
43-9011	Computer Operators	\$11.03	\$15.42	\$12.49	\$15.20	\$17.82
15-1021	Computer Programmers	\$17.14	\$27.50	\$20.89	\$26.70	\$33.18
15-1031	Computer Software Engineers, Applications	\$29.29	\$43.07	\$34.02	\$42.35	\$53.07
15-1032	Computer Software Engineers, Systems Software	\$20.12	\$34.77	\$24.31	\$33.01	\$43.91
15-1099	Computer Specialists, All Other	\$13.87	\$32.04	\$17.51	\$26.94	\$42.72
15-1041	Computer Support Specialists	\$13.47	\$23.22	\$15.12	\$19.55	\$27.48
15-1051	Computer Systems Analysts	\$20.72	\$37.78	\$22.63	\$37.97	\$49.58
49-2011	Computer, Automated Teller, and Office Machine Repairers	\$12.71	\$16.67	\$13.96	\$15.98	\$18.82

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	\$10.03	\$13.46	\$10.75	\$12.89	\$15.73
19-1031	Conservation Scientists	\$19.79	\$27.70	\$21.85	\$27.92	\$33.09
47-4011	Construction and Building Inspectors	\$21.92	\$27.94	\$24.31	\$27.44	\$32.40
47-0000	Construction and Extraction Occupations	\$12.34	\$20.53	\$14.27	\$19.89	\$25.52
47-2061	Construction Laborers	\$9.13	\$13.97	\$10.14	\$12.73	\$16.66
11-9021	Construction Managers	\$23.45	\$38.71	\$25.76	\$34.01	\$48.64
53-7011	Conveyor Operators and Tenders	\$9.50	\$14.65	\$10.23	\$14.35	\$17.45
35-2011	Cooks, Fast Food	\$7.01	\$8.18	\$7.29	\$8.01	\$8.77
35-2012	Cooks, Institution and Cafeteria	\$9.46	\$12.56	\$10.38	\$12.33	\$14.67
35-2014	Cooks, Restaurant	\$7.79	\$10.09	\$8.38	\$9.90	\$11.33
35-2015	Cooks, Short Order	\$6.98	\$10.70	\$7.61	\$9.10	\$12.02
43-4021	Correspondence Clerks	\$10.91	\$13.49	\$11.57	\$13.36	\$14.97
13-1051	Cost Estimators	\$16.64	\$26.07	\$18.56	\$24.38	\$32.62
41-2021	Counter and Rental Clerks	\$6.95	\$10.25	\$7.50	\$9.22	\$11.12
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	\$6.75*	\$8.58	\$6.98	\$8.08	\$9.32
43-5021	Couriers and Messengers	\$8.98	\$12.75	\$9.52	\$10.95	\$13.98
13-2041	Credit Analysts	\$18.48	\$23.70	\$19.55	\$22.07	\$27.09
43-4041	Credit Authorizers, Checkers, and Clerks	\$9.89	\$13.95	\$10.81	\$13.17	\$15.92
33-9091	Crossing Guards	\$6.75*	\$8.90	\$6.75*	\$7.73	\$10.47
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	\$13.89	\$17.19	\$15.22	\$16.76	\$18.39

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
43-4051	Customer Service Representatives	\$11.04	\$16.17	\$12.13	\$15.24	\$20.15
51-9031	Cutters and Trimmers, Hand	\$9.48	\$10.92	\$9.47	\$10.43	\$12.17
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	\$9.00	\$12.87	\$10.01	\$12.59	\$15.30
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	\$9.89	\$13.65	\$10.86	\$12.96	\$15.56
43-9021	Data Entry Keyers	\$9.39	\$12.86	\$10.24	\$12.17	\$14.83
15-1061	Database Administrators	\$13.64	\$25.38	\$15.42	\$21.39	\$31.10
41-9011	Demonstrators and Product Promoters	\$8.44	\$12.76	\$9.14	\$10.57	\$12.62
31-9091	Dental Assistants	\$14.95	\$19.13	\$16.61	\$19.37	\$21.86
29-2021	Dental Hygienists	\$38.21	\$45.02	\$41.68	\$46.42	\$51.76
51-9081	Dental Laboratory Technicians	\$11.53	\$18.29	\$12.82	\$16.55	\$22.25
29-1020	Dentists	\$49.37	\$57.99	\$56.67	\$61.25	\$66.14
43-9031	Desktop Publishers	\$11.67	\$15.53	\$13.60	\$15.68	\$17.84
33-3021	Detectives and Criminal Investigators	\$25.27	\$31.00	\$28.15	\$32.16	\$35.19
29-2032	Diagnostic Medical Sonographers	\$21.46	\$26.79	\$23.03	\$26.21	\$30.73
29-1031	Dietitians and Nutritionists	\$16.79	\$22.84	\$19.50	\$22.72	\$26.65
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	\$6.75*	\$7.43	\$6.75*	\$6.75*	\$7.74
21-2021	Directors, Religious Activities and Education	\$10.31	\$16.59	\$12.05	\$17.98	\$20.58
35-9021	Dishwashers	\$6.75*	\$7.93	\$6.98	\$7.82	\$8.72
43-5032	Dispatchers, Except Police, Fire, and Ambulance	\$12.13	\$20.12	\$13.87	\$18.05	\$25.96



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	\$9.59	\$22.29	\$13.71	\$20.20	\$27.70
53-3031	Driver/Sales Workers	\$6.75*	\$11.03	\$7.17	\$9.28	\$13.77
47-2081	Drywall and Ceiling Tile Installers	\$10.72	\$18.74	\$11.94	\$18.29	\$25.62
47-5021	Earth Drillers, Except Oil and Gas	\$17.11	\$19.79	\$17.65	\$19.35	\$21.55
27-3041	Editors	\$13.53	\$24.81	\$17.12	\$24.07	\$30.43
11-9032	Education Administrators, Elementary and Secondary School	(2)	(2)	(2)	(2)	(2)
11-9031	Education Administrators, Preschool and Child Care Center/Program	\$15.25	\$17.17	\$15.22	\$16.40	\$17.58
25-0000	Education, Training, and Library Occupations	\$10.67	\$21.22	\$12.63	\$20.44	\$27.24
21-1012	Educational, Vocational, and School Counselors	\$10.65	\$21.42	\$13.27	\$21.08	\$26.84
17-3023	Electrical and Electronic Engineering Technicians	\$15.24	\$20.00	\$16.40	\$19.29	\$22.92
51-2022	Electrical and Electronic Equipment Assemblers	\$8.86	\$12.07	\$9.92	\$12.00	\$14.10
17-3012	Electrical and Electronics Drafters	\$15.55	\$20.67	\$16.04	\$17.88	\$23.38
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	\$14.89	\$20.98	\$16.62	\$20.29	\$24.61
17-2071	Electrical Engineers	\$28.62	\$36.20	\$31.27	\$36.16	\$42.47
47-2111	Electricians	\$14.37	\$23.37	\$16.63	\$22.38	\$28.44
51-2023	Electromechanical Equipment Assemblers	\$8.10	\$11.90	\$8.54	\$10.91	\$13.91
17-3024	Electro-Mechanical Technicians	\$15.96	\$20.16	\$17.87	\$20.41	\$23.18
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	\$8.98	\$10.67	\$9.19	\$10.11	\$11.07
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	\$12.62	\$18.22	\$15.17	\$18.11	\$21.71
17-2072	Electronics Engineers, Except Computer	\$25.40	\$37.34	\$28.81	\$36.18	\$44.38

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
25-2021	Elementary School Teachers, Except Special Education	(2)	(2)	(2)	(2)	(2)
43-4061	Eligibility Interviewers, Government Programs	\$13.09	\$17.45	\$13.84	\$15.71	\$18.15
29-2041	Emergency Medical Technicians and Paramedics	\$8.80	\$16.64	\$10.35	\$17.12	\$22.78
13-1071	Employment, Recruitment, and Placement Specialists	\$15.63	\$29.20	\$18.22	\$23.05	\$36.74
11-9041	Engineering Managers	\$35.13	\$47.57	\$39.11	\$46.75	\$57.27
17-2199	Engineers, All Other	\$26.04	\$35.69	\$29.29	\$35.31	\$42.68
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	(2)	(2)	(2)	(2)	(2)
17-3025	Environmental Engineering Technicians	\$15.51	\$20.13	\$16.78	\$19.71	\$23.24
17-2081	Environmental Engineers	\$20.60	\$27.65	\$21.77	\$27.42	\$32.56
19-2041	Environmental Scientists and Specialists, Including Health	\$18.75	\$26.42	\$20.86	\$25.00	\$28.48
51-9194	Etchers and Engravers	\$8.78	\$12.03	\$9.19	\$10.35	\$13.30
53-7032	Excavating and Loading Machine and Dragline Operators	\$17.30	\$22.48	\$18.43	\$22.54	\$26.06
43-6011	Executive Secretaries and Administrative Assistants	\$13.39	\$18.10	\$14.65	\$17.46	\$21.32
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	\$9.82	\$13.75	\$10.57	\$13.69	\$16.69
29-1062	Family and General Practitioners	\$48.79	\$58.15	\$53.74	\$58.46	\$63.78
49-3041	Farm Equipment Mechanics	\$12.92	\$19.21	\$15.05	\$19.48	\$22.46
45-0000	Farming, Fishing, and Forestry Occupations	\$7.51	\$10.39	\$7.75	\$8.83	\$11.57
45-9099	Farming, Fishing, and Forestry Workers, All Other	\$9.09	\$10.91	\$9.23	\$10.11	\$10.99
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	\$7.69	\$9.21	\$7.62	\$8.35	\$10.26
45-2093	Farmworkers, Farm and Ranch Animals	\$6.75*	\$7.74	\$6.75*	\$7.67	\$8.72

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
47-4031	Fence Erectors	\$11.50	\$15.41	\$12.18	\$14.02	\$18.78
43-4071	File Clerks	\$7.79	\$10.36	\$7.96	\$9.12	\$11.88
13-2051	Financial Analysts	\$23.22	\$33.57	\$26.05	\$31.75	\$36.78
11-3031	Financial Managers	\$23.16	\$38.85	\$26.11	\$34.13	\$50.32
13-2099	Financial Specialists, All Other	\$15.36	\$22.85	\$16.41	\$19.95	\$27.11
33-2011	Fire Fighters	\$7.11	\$14.49	\$7.31	\$15.30	\$19.97
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	\$22.98	\$30.63	\$24.06	\$28.09	\$36.42
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	\$13.78	\$20.90	\$15.08	\$18.97	\$24.52
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	\$21.00	\$32.98	\$27.12	\$34.20	\$39.96
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	\$9.31	\$13.51	\$10.10	\$13.11	\$16.07
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	\$10.14	\$17.52	\$11.37	\$16.54	\$21.74
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	\$10.69	\$15.71	\$11.90	\$14.67	\$18.16
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	\$12.29	\$18.47	\$13.23	\$18.38	\$21.72
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	\$17.55	\$27.83	\$20.70	\$26.05	\$32.99
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	\$16.50	\$27.75	\$19.19	\$25.41	\$34.02
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	\$14.76	\$21.40	\$16.34	\$20.16	\$25.58
39-1021	First-Line Supervisors/Managers of Personal Service Workers	\$11.31	\$16.66	\$12.46	\$15.65	\$18.82
33-1012	First-Line Supervisors/Managers of Police and Detectives	\$30.28	\$37.73	\$31.46	\$35.57	\$42.29



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	\$14.69	\$23.03	\$17.01	\$22.88	\$27.91
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	\$11.23	\$17.93	\$12.52	\$16.14	\$21.09
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle	\$12.08	\$21.60	\$14.96	\$20.49	\$25.85
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	\$11.05	\$18.84	\$14.41	\$17.21	\$25.41
39-9031	Fitness Trainers and Aerobics Instructors	\$9.16	\$22.89	\$10.12	\$25.69	\$31.45
27-1023	Floral Designers	\$9.36	\$10.18	\$9.27	\$9.99	\$10.69
51-3092	Food Batchmakers	\$11.56	\$14.94	\$13.68	\$15.69	\$17.09
51-3093	Food Cooking Machine Operators and Tenders	\$7.67	\$9.01	\$7.62	\$8.27	\$8.93
35-9099	Food Preparation and Serving Related Workers, All Other	\$7.41	\$11.61	\$7.96	\$11.09	\$14.39
35-0000	Food Preparation and Serving-Related Occupations	\$6.88	\$9.04	\$7.20	\$8.11	\$9.93
35-2021	Food Preparation Workers	\$7.12	\$8.83	\$7.36	\$8.34	\$10.11
35-3041	Food Servers, Nonrestaurant	\$7.58	\$9.72	\$7.77	\$9.01	\$11.71
11-9051	Food Service Managers	\$15.21	\$20.14	\$16.60	\$19.29	\$22.24
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	\$9.13	\$13.47	\$9.87	\$12.70	\$17.37
39-4021	Funeral Attendants	\$11.09	\$14.61	\$11.79	\$14.96	\$16.75
11-9061	Funeral Directors	\$15.21	\$25.25	\$17.36	\$23.09	\$27.42
51-7021	Furniture Finishers	\$10.77	\$15.36	\$11.95	\$14.52	\$18.89
11-1021	General and Operations Managers	\$22.16	\$40.46	\$26.00	\$36.30	\$55.46
47-2121	Glaziers	\$14.61	\$19.37	\$17.00	\$19.98	\$22.66
25-1191	Graduate Teaching Assistants	(2)	(2)	(2)	(2)	(2)

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
27-1024	Graphic Designers	\$14.23	\$25.40	\$16.68	\$23.55	\$28.12
51-9022	Grinding and Polishing Workers, Hand	\$10.33	\$15.23	\$11.08	\$12.98	\$17.12
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Me	\$8.73	\$12.46	\$9.22	\$11.41	\$15.27
39-5012	Hairdressers, Hairstylists, and Cosmetologists	\$7.74	\$9.73	\$8.24	\$9.79	\$10.99
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	\$19.83	\$29.96	\$22.24	\$30.45	\$34.07
29-1199	Health Diagnosing and Treating Practitioners, All Other	\$17.09	\$25.82	\$21.98	\$26.14	\$29.20
21-1091	Health Educators	\$11.70	\$15.36	\$12.17	\$13.82	\$16.59
29-0000	Healthcare Practitioners and Technical Occupations	\$11.65	\$24.73	\$15.11	\$22.66	\$31.57
31-0000	Healthcare Support Occupations	\$9.70	\$13.62	\$10.76	\$12.72	\$15.56
31-9099	Healthcare Support Workers, All Other	\$11.80	\$13.28	\$12.10	\$13.23	\$14.48
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	\$14.85	\$20.75	\$16.68	\$20.20	\$24.55
47-3019	Helpers, Construction Trades, All Other	\$7.17	\$10.28	\$7.39	\$10.14	\$12.46
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	\$10.94	\$14.13	\$11.65	\$12.85	\$14.34
47-3012	Helpers--Carpenters	\$11.26	\$15.01	\$12.25	\$15.80	\$17.44
47-3013	Helpers--Electricians	\$9.36	\$13.32	\$10.10	\$14.06	\$16.47
47-5081	Helpers--Extraction Workers	\$11.07	\$12.89	\$11.41	\$12.60	\$14.09
49-9098	Helpers--Installation, Maintenance, and Repair Workers	\$7.77	\$10.81	\$8.42	\$10.50	\$12.71
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	\$10.05	\$13.84	\$11.43	\$14.36	\$16.30
51-9198	Helpers--Production Workers	\$7.34	\$9.91	\$7.69	\$8.97	\$11.64

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
47-3016	Helpers--Roofers	\$8.78	\$12.12	\$9.63	\$12.16	\$14.41
49-9031	Home Appliance Repairers	\$8.32	\$13.13	\$8.80	\$11.32	\$16.60
31-1011	Home Health Aides	\$8.39	\$10.70	\$8.90	\$10.54	\$12.27
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	\$6.75*	\$7.57	\$6.75*	\$7.33	\$8.28
43-4081	Hotel, Motel, and Resort Desk Clerks	\$7.16	\$9.53	\$8.01	\$9.66	\$10.96
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	\$12.47	\$17.82	\$14.17	\$16.78	\$21.14
11-3040	Human Resources Managers	\$19.28	\$32.96	\$21.60	\$30.92	\$37.70
17-3026	Industrial Engineering Technicians	\$18.31	\$23.62	\$19.14	\$22.19	\$27.58
17-2112	Industrial Engineers	\$22.48	\$33.87	\$26.39	\$33.85	\$41.26
49-9041	Industrial Machinery Mechanics	\$13.99	\$19.61	\$15.84	\$19.05	\$21.79
11-3051	Industrial Production Managers	\$21.84	\$39.81	\$24.37	\$38.16	\$51.87
53-7051	Industrial Truck and Tractor Operators	\$10.31	\$13.77	\$11.24	\$13.12	\$16.23
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	\$9.44	\$14.08	\$10.62	\$13.40	\$16.75
49-0000	Installation, Maintenance, and Repair Occupations	\$11.92	\$19.04	\$14.17	\$18.79	\$23.38
49-9099	Installation, Maintenance, and Repair Workers, All Other	\$10.21	\$15.76	\$11.29	\$15.16	\$19.33
25-9031	Instructional Coordinators	\$15.31	\$23.80	\$19.15	\$23.47	\$30.97
41-3021	Insurance Sales Agents	\$14.37	\$25.14	\$17.05	\$20.85	\$35.52
13-2053	Insurance Underwriters	\$18.70	\$25.87	\$21.04	\$25.58	\$29.95
27-1025	Interior Designers	\$12.12	\$19.16	\$13.67	\$17.05	\$22.63
29-1063	Internists, General	\$52.24	\$59.38	\$53.15	\$58.46	\$60.25



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
43-4111	Interviewers, Except Eligibility and Loan	\$11.10	\$16.45	\$11.81	\$14.02	\$22.81
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	\$7.25	\$10.15	\$7.84	\$9.43	\$11.74
51-5021	Job Printers	\$11.90	\$13.45	\$11.85	\$12.93	\$14.98
25-2012	Kindergarten Teachers, Except Special Education	(2)	(2)	(2)	(2)	(2)
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	\$7.50	\$10.98	\$8.11	\$10.17	\$13.27
17-1012	Landscape Architects	\$15.31	\$18.28	\$14.84	\$15.96	\$17.10
37-3011	Landscaping and Groundskeeping Workers	\$8.59	\$11.59	\$9.15	\$10.78	\$13.68
51-6011	Laundry and Dry-Cleaning Workers	\$7.72	\$10.57	\$8.25	\$9.77	\$11.98
23-1011	Lawyers	\$27.87	\$46.03	\$31.55	\$43.41	\$58.46
23-0000	Legal Occupations	\$9.69	\$26.96	\$10.35	\$21.01	\$38.77
43-6012	Legal Secretaries	\$11.80	\$16.72	\$13.21	\$16.59	\$20.19
11-1031	Legislators	\$20.60	\$21.30	\$19.66	\$20.91	\$22.15
25-4021	Librarians	\$20.58	\$26.17	\$23.03	\$25.92	\$28.95
43-4121	Library Assistants, Clerical	\$8.98	\$13.12	\$10.71	\$13.86	\$16.08
25-4031	Library Technicians	\$11.44	\$13.86	\$11.97	\$13.72	\$15.94
29-2061	Licensed Practical and Licensed Vocational Nurses	\$17.10	\$20.31	\$17.99	\$20.31	\$22.58
19-0000	Life, Physical, and Social Science Occupations	\$14.27	\$26.86	\$16.71	\$24.46	\$33.45
13-2071	Loan Counselors	\$13.38	\$16.16	\$13.74	\$15.47	\$17.50
43-4131	Loan Interviewers and Clerks	\$12.64	\$16.95	\$14.29	\$17.25	\$20.06
13-2072	Loan Officers	\$17.68	\$26.78	\$20.59	\$25.81	\$31.78

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	\$7.50	\$9.24	\$7.91	\$9.30	\$10.58
49-9094	Locksmiths and Safe Repairers	\$12.18	\$16.42	\$15.10	\$16.84	\$18.58
11-9081	Lodging Managers	\$13.19	\$21.74	\$13.99	\$16.64	\$21.13
53-7063	Machine Feeders and Offbearers	\$8.70	\$11.29	\$9.14	\$10.53	\$12.84
51-4041	Machinists	\$11.87	\$17.93	\$13.90	\$17.46	\$22.02
37-2012	Maids and Housekeeping Cleaners	\$6.75*	\$8.06	\$6.75*	\$7.75	\$9.02
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	\$9.19	\$11.61	\$9.77	\$11.15	\$13.56
49-9042	Maintenance and Repair Workers, General	\$9.58	\$16.89	\$11.52	\$17.36	\$21.57
49-9043	Maintenance Workers, Machinery	\$13.59	\$18.94	\$15.29	\$19.03	\$22.75
13-1111	Management Analysts	\$22.88	(3)	\$25.81	\$35.21	>\$70.00
11-0000	Management Occupations	\$20.43	\$38.42	\$24.25	\$34.86	\$50.98
11-9199	Managers, All Other	\$20.20	\$35.93	\$24.71	\$33.47	\$45.81
39-5092	Manicurists and Pedicurists	\$6.75*	\$8.43	\$6.75*	\$8.04	\$10.46
19-3021	Market Research Analysts	\$18.52	\$32.85	\$21.88	\$32.87	\$44.02
11-2021	Marketing Managers	\$23.88	\$44.66	\$28.09	\$44.10	\$59.61
21-1013	Marriage and Family Therapists	\$14.47	\$17.15	\$14.96	\$16.55	\$18.55
31-9011	Massage Therapists	\$10.87	\$21.98	\$12.03	\$19.48	\$29.50
53-7199	Material Moving Workers, All Other	\$12.45	\$19.21	\$13.62	\$17.52	\$25.85
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	\$8.80	\$12.52	\$9.60	\$12.29	\$15.65
17-3013	Mechanical Drafters	\$17.84	\$22.43	\$18.83	\$21.01	\$23.74

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
17-3027	Mechanical Engineering Technicians	\$16.93	\$21.64	\$18.73	\$21.55	\$25.03
17-2141	Mechanical Engineers	\$26.53	\$35.74	\$28.59	\$34.43	\$42.42
27-3099	Media and Communication Workers, All Other	\$11.61	\$16.42	\$12.51	\$14.43	\$16.66
29-2012	Medical and Clinical Laboratory Technicians	\$13.25	\$18.53	\$14.63	\$17.02	\$21.63
29-2011	Medical and Clinical Laboratory Technologists	\$22.90	\$28.12	\$23.82	\$26.27	\$29.07
11-9111	Medical and Health Services Managers	\$22.61	\$32.56	\$25.20	\$31.16	\$37.74
21-1022	Medical and Public Health Social Workers	\$15.77	\$19.23	\$16.20	\$18.50	\$21.89
51-9082	Medical Appliance Technicians	\$25.75	\$37.07	\$36.67	\$40.23	\$43.71
31-9092	Medical Assistants	\$12.27	\$13.97	\$12.23	\$13.36	\$15.52
49-9062	Medical Equipment Repairers	\$15.44	\$16.53	\$14.81	\$15.81	\$16.81
29-2071	Medical Records and Health Information Technicians	\$9.52	\$14.31	\$10.34	\$13.18	\$17.10
43-6013	Medical Secretaries	\$12.14	\$14.59	\$12.69	\$14.43	\$16.45
31-9094	Medical Transcriptionists	\$13.97	\$16.29	\$14.71	\$16.20	\$17.78
13-1121	Meeting and Convention Planners	\$15.25	\$22.88	\$17.19	\$21.56	\$26.55
21-1023	Mental Health and Substance Abuse Social Workers	\$11.57	\$15.68	\$11.85	\$13.20	\$15.99
27-1026	Merchandise Displayers and Window Trimmers	\$6.86	\$11.54	\$7.12	\$10.02	\$12.95
51-4199	Metal Workers and Plastic Workers, All Other	\$9.92	\$13.37	\$11.47	\$13.16	\$15.53
25-2022	Middle School Teachers, Except Special and Vocational Education	(2)	(2)	(2)	(2)	(2)
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	\$33.26	\$43.45	\$38.55	\$43.83	\$53.55
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	\$11.08	\$15.03	\$12.68	\$15.52	\$17.38



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$16.33	\$22.57	\$17.84	\$21.70	\$26.76
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plasti	\$9.46	\$13.19	\$10.52	\$12.73	\$15.29
39-3021	Motion Picture Projectionists	\$6.75*	\$8.07	\$6.75*	\$7.60	\$8.67
53-3099	Motor Vehicle Operators, All Other	\$8.79	\$15.05	\$10.15	\$16.08	\$18.59
49-3051	Motorboat Mechanics	\$11.25	\$14.65	\$12.29	\$14.57	\$16.66
49-3052	Motorcycle Mechanics	\$10.22	\$13.96	\$11.86	\$13.52	\$16.73
27-1014	Multi-Media Artists and Animators	\$21.88	\$29.20	\$24.18	\$28.82	\$35.57
11-9121	Natural Sciences Managers	\$20.20	\$37.67	\$25.65	\$34.41	\$50.74
15-1071	Network and Computer Systems Administrators	\$19.73	\$27.43	\$21.47	\$26.38	\$32.40
15-1081	Network Systems and Data Communications Analysts	\$19.38	\$30.27	\$22.42	\$28.25	\$37.69
43-4141	New Accounts Clerks	\$10.96	\$14.00	\$11.57	\$14.02	\$16.11
39-2021	Nonfarm Animal Caretakers	\$8.13	\$10.96	\$8.73	\$10.17	\$11.50
29-2033	Nuclear Medicine Technologists	\$25.33	\$29.44	\$25.90	\$29.04	\$33.11
51-4012	Numerical Tool and Process Control Programmers	\$17.30	\$20.89	\$18.18	\$20.55	\$24.31
31-1012	Nursing Aides, Orderlies, and Attendants	\$9.67	\$11.41	\$10.14	\$11.44	\$12.94
29-9010	Occupational Health and Safety Specialists and Technicians	\$18.30	\$24.12	\$19.51	\$23.49	\$28.76
29-1122	Occupational Therapists	\$20.93	\$25.06	\$22.17	\$25.06	\$28.04
43-0000	Office and Administrative Support Occupations	\$9.69	\$15.03	\$11.10	\$14.27	\$18.18
43-9061	Office Clerks, General	\$8.22	\$12.29	\$9.52	\$12.06	\$14.89
43-9071	Office Machine Operators, Except Computer	\$7.48	\$10.41	\$7.50	\$8.47	\$14.16

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
47-2073	Operating Engineers and Other Construction Equipment Operators	\$17.29	\$22.27	\$18.69	\$21.20	\$26.50
15-2031	Operations Research Analysts	\$22.42	\$27.39	\$23.42	\$27.04	\$31.54
51-9083	Ophthalmic Laboratory Technicians	\$7.77	\$10.11	\$8.03	\$9.19	\$11.24
29-2081	Opticians, Dispensing	\$14.04	\$18.55	\$15.39	\$18.46	\$21.19
29-1041	Optometrists	\$32.41	\$38.43	\$32.64	\$36.18	\$44.90
43-4151	Order Clerks	\$9.06	\$13.78	\$10.09	\$13.16	\$16.49
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	\$13.00	\$15.29	\$14.43	\$15.74	\$17.09
51-9111	Packaging and Filling Machine Operators and Tenders	\$8.45	\$11.98	\$9.22	\$11.07	\$13.96
53-7064	Packers and Packagers, Hand	\$7.32	\$10.45	\$7.61	\$8.68	\$13.16
47-2141	Painters, Construction and Maintenance	\$11.61	\$17.13	\$12.63	\$17.35	\$20.93
51-9122	Painters, Transportation Equipment	\$13.19	\$19.86	\$13.99	\$18.38	\$25.72
47-2142	Paperhangers	\$16.73	\$17.59	\$16.15	\$17.40	\$18.55
23-2011	Paralegals and Legal Assistants	\$9.67	\$13.13	\$9.48	\$10.33	\$16.58
33-3041	Parking Enforcement Workers	\$13.97	\$17.16	\$14.75	\$17.51	\$19.75
41-2022	Parts Salespersons	\$9.49	\$15.20	\$11.15	\$13.98	\$18.53
47-2071	Paving, Surfacing, and Tamping Equipment Operators	\$17.56	\$24.25	\$19.39	\$22.68	\$31.00
43-3051	Payroll and Timekeeping Clerks	\$12.30	\$17.03	\$14.07	\$16.96	\$20.24
39-9021	Personal and Home Care Aides	\$8.90	\$9.89	\$9.38	\$10.12	\$10.85
39-0000	Personal Care and Service Occupations	\$7.56	\$11.58	\$8.30	\$10.11	\$12.13
39-9099	Personal Care and Service Workers, All Other	\$8.57	\$12.77	\$9.63	\$12.06	\$14.51

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-2052	Personal Financial Advisors	\$23.14	\$41.98	\$27.10	\$39.53	\$57.98
37-2021	Pest Control Workers	\$9.87	\$15.01	\$12.63	\$15.68	\$17.64
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	\$11.85	\$16.29	\$12.33	\$14.18	\$20.62
29-1051	Pharmacists	\$34.74	\$40.68	\$38.33	\$41.82	\$45.34
31-9095	Pharmacy Aides	\$8.96	\$12.47	\$9.85	\$12.62	\$15.29
29-2052	Pharmacy Technicians	\$12.22	\$15.69	\$12.92	\$14.84	\$17.10
27-4021	Photographers	\$7.82	\$12.61	\$8.19	\$10.36	\$13.81
51-9131	Photographic Process Workers	\$7.67	\$10.07	\$7.85	\$8.83	\$11.56
51-9132	Photographic Processing Machine Operators	\$8.04	\$10.99	\$8.49	\$10.29	\$13.10
31-2022	Physical Therapist Aides	\$9.54	\$13.16	\$10.04	\$11.68	\$15.65
31-2021	Physical Therapist Assistants	\$14.53	\$17.90	\$15.18	\$17.38	\$20.88
29-1123	Physical Therapists	\$23.65	\$29.28	\$26.15	\$29.95	\$33.52
29-1071	Physician Assistants	\$24.40	\$27.77	\$24.76	\$27.67	\$31.56
47-2151	Pipelayers	\$15.58	\$22.87	\$17.83	\$23.92	\$27.10
47-2161	Plasterers and Stucco Masons	\$16.58	\$21.94	\$17.51	\$21.94	\$26.19
47-2152	Plumbers, Pipefitters, and Steamfitters	\$17.36	\$25.57	\$19.83	\$23.90	\$27.61
29-1081	Podiatrists	\$32.00	\$47.10	\$33.38	\$44.19	\$58.46
43-5031	Police, Fire, and Ambulance Dispatchers	\$17.88	\$21.75	\$19.34	\$21.56	\$24.72
51-5022	Prepress Technicians and Workers	\$14.00	\$18.95	\$15.53	\$18.73	\$21.68
25-2011	Preschool Teachers, Except Special Education	\$9.46	\$13.40	\$10.12	\$11.79	\$14.59



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-6021	Pressers, Textile, Garment, and Related Materials	\$7.04	\$8.10	\$7.29	\$8.06	\$8.89
51-5023	Printing Machine Operators	\$9.89	\$17.01	\$11.50	\$17.03	\$22.53
33-9021	Private Detectives and Investigators	\$9.50	\$13.64	\$9.52	\$10.53	\$16.99
43-3061	Procurement Clerks	\$12.84	\$20.16	\$14.02	\$17.92	\$25.46
27-2012	Producers and Directors	(2)	(2)	(2)	(2)	(2)
51-0000	Production Occupations	\$8.83	\$14.07	\$9.86	\$12.66	\$16.87
51-9199	Production Workers, All Other	\$7.86	\$12.03	\$8.48	\$10.57	\$13.84
33-0000	Protective Service Occupations	\$8.61	\$18.94	\$9.91	\$16.55	\$26.80
29-2053	Psychiatric Technicians	\$13.43	\$17.76	\$14.26	\$18.08	\$20.92
11-2031	Public Relations Managers	\$19.96	\$32.31	\$23.17	\$28.76	\$39.72
27-3031	Public Relations Specialists	\$10.99	\$20.13	\$13.06	\$19.42	\$23.37
13-1021	Purchasing Agents and Buyers, Farm Products	\$15.79	\$28.82	\$18.03	\$25.37	\$30.97
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	\$15.91	\$23.17	\$17.50	\$22.38	\$27.87
11-3061	Purchasing Managers	\$19.71	\$32.39	\$22.80	\$31.35	\$39.71
29-1124	Radiation Therapists	\$26.49	\$34.88	\$28.43	\$35.76	\$41.36
29-2034	Radiologic Technologists and Technicians	\$18.10	\$22.50	\$19.12	\$21.50	\$26.20
41-9021	Real Estate Brokers	\$14.48	(3)	\$18.74	\$30.63	>\$70.00
41-9022	Real Estate Sales Agents	\$8.39	\$22.36	\$9.73	\$12.62	\$30.43
43-4171	Receptionists and Information Clerks	\$9.23	\$13.19	\$10.15	\$12.47	\$16.06
29-1125	Recreational Therapists	\$13.49	\$17.14	\$14.98	\$16.83	\$19.73

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
53-7081	Refuse and Recyclable Material Collectors	\$11.36	\$17.08	\$12.85	\$17.34	\$21.37
29-1111	Registered Nurses	\$22.19	\$28.08	\$23.91	\$28.21	\$32.90
21-1015	Rehabilitation Counselors	\$10.52	\$14.84	\$11.64	\$13.32	\$18.46
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	\$9.45	\$14.46	\$10.47	\$14.34	\$18.20
29-1126	Respiratory Therapists	\$19.68	\$22.81	\$19.82	\$21.86	\$25.63
29-2054	Respiratory Therapy Technicians	\$18.08	\$20.46	\$18.57	\$20.24	\$21.96
41-2031	Retail Salespersons	\$7.56	\$11.35	\$8.01	\$9.61	\$11.88
47-2181	Roofers	\$13.01	\$19.14	\$14.99	\$19.23	\$22.78
41-0000	Sales and Related Occupations	\$7.74	\$14.87	\$8.47	\$11.11	\$17.85
41-9031	Sales Engineers	\$25.67	\$36.97	\$28.51	\$37.33	\$45.27
11-2022	Sales Managers	\$24.69	\$44.13	\$29.74	\$41.49	\$59.61
41-3099	Sales Representatives, Services, All Other	\$7.68	\$16.28	\$8.49	\$13.22	\$21.81
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Product	\$13.43	\$23.04	\$15.01	\$19.27	\$28.77
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	\$21.34	\$37.14	\$24.08	\$34.10	\$49.90
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	\$10.75	\$13.28	\$11.46	\$12.78	\$14.17
25-2031	Secondary School Teachers, Except Special and Vocational Education	(2)	(2)	(2)	(2)	(2)
43-6014	Secretaries, Except Legal, Medical, and Executive	\$10.32	\$14.65	\$11.74	\$13.50	\$17.32
41-3031	Securities, Commodities, and Financial Services Sales Agents	\$16.50	\$36.82	\$19.78	\$32.56	\$51.57
33-9032	Security Guards	\$8.61	\$10.87	\$9.24	\$10.38	\$11.94

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
25-3021	Self-Enrichment Education Teachers	\$9.99	\$15.65	\$11.90	\$14.92	\$19.95
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and	\$9.74	\$14.23	\$10.42	\$12.52	\$16.22
53-6031	Service Station Attendants	\$7.89	\$9.83	\$8.30	\$9.31	\$10.66
51-6051	Sewers, Hand	\$9.74	\$11.12	\$9.98	\$10.82	\$11.64
51-6031	Sewing Machine Operators	\$6.95	\$8.93	\$7.36	\$8.54	\$10.41
47-2211	Sheet Metal Workers	\$9.74	\$19.36	\$11.86	\$19.21	\$26.33
43-5071	Shipping, Receiving, and Traffic Clerks	\$8.71	\$12.30	\$9.71	\$11.87	\$14.54
39-5094	Skin Care Specialists	\$10.06	\$11.16	\$9.90	\$10.68	\$11.61
51-3023	Slaughterers and Meat Packers	\$7.40	\$8.89	\$7.61	\$8.79	\$10.17
11-9151	Social and Community Service Managers	\$14.62	\$22.37	\$16.09	\$20.87	\$27.14
21-1093	Social and Human Service Assistants	\$9.73	\$14.78	\$10.42	\$13.76	\$17.52
25-2042	Special Education Teachers, Middle School	(2)	(2)	(2)	(2)	(2)
29-1127	Speech-Language Pathologists	\$21.55	\$25.42	\$22.94	\$25.49	\$27.98
51-8021	Stationary Engineers and Boiler Operators	\$18.87	\$25.04	\$22.74	\$25.91	\$28.82
43-9111	Statistical Assistants	\$10.39	\$16.15	\$11.84	\$15.50	\$18.81
43-5081	Stock Clerks and Order Fillers	\$7.53	\$11.15	\$8.02	\$9.82	\$13.53
47-2022	Stonemasons	\$10.52	\$19.10	\$11.28	\$21.22	\$24.83
47-2221	Structural Iron and Steel Workers	\$13.69	\$20.78	\$14.03	\$21.57	\$26.42
51-2041	Structural Metal Fabricators and Fitters	\$12.92	\$16.83	\$14.18	\$16.58	\$19.84
21-1011	Substance Abuse and Behavioral Disorder Counselors	\$10.69	\$13.98	\$12.05	\$13.94	\$16.11



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
29-1067	Surgeons	\$44.72	(3)	\$54.53	\$60.94	>\$70.00
29-2055	Surgical Technologists	\$13.75	\$17.46	\$14.68	\$17.42	\$20.45
17-3031	Surveying and Mapping Technicians	\$13.76	\$21.26	\$15.44	\$20.93	\$27.38
17-1022	Surveyors	\$18.42	\$26.86	\$19.57	\$23.35	\$30.78
43-2011	Switchboard Operators, Including Answering Service	\$9.22	\$11.80	\$9.80	\$11.40	\$13.70
51-6052	Tailors, Dressmakers, and Custom Sewers	\$10.62	\$12.66	\$11.27	\$12.69	\$14.02
47-2082	Tapers	\$12.32	\$19.10	\$14.00	\$18.92	\$24.50
13-2081	Tax Examiners, Collectors, and Revenue Agents	\$18.29	\$26.62	\$20.69	\$28.46	\$32.69
13-2082	Tax Preparers	\$8.16	\$13.55	\$8.41	\$10.38	\$15.06
53-3041	Taxi Drivers and Chauffeurs	\$8.71	\$11.85	\$9.29	\$11.99	\$14.32
25-9041	Teacher Assistants	(2)	(2)	(2)	(2)	(2)
27-3042	Technical Writers	\$21.88	\$31.85	\$23.58	\$28.71	\$36.31
49-9052	Telecommunications Line Installers and Repairers	\$19.49	\$23.94	\$22.11	\$25.12	\$27.33
41-9041	Telemarketers	\$7.39	\$10.48	\$7.77	\$9.62	\$12.50
43-3071	Tellers	\$9.68	\$11.30	\$9.74	\$10.72	\$12.47
51-6099	Textile, Apparel, and Furnishings Workers, All Other	\$7.87	\$10.96	\$8.16	\$9.94	\$13.99
47-2044	Tile and Marble Setters	\$20.17	\$24.65	\$22.19	\$24.69	\$26.98
49-3093	Tire Repairers and Changers	\$9.40	\$11.93	\$10.06	\$11.96	\$13.79
23-2093	Title Examiners, Abstractors, and Searchers	\$14.60	\$21.30	\$16.13	\$21.31	\$25.89
51-4111	Tool and Die Makers	\$18.57	\$24.27	\$19.93	\$23.70	\$28.24

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
39-6021	Tour Guides and Escorts	\$11.97	\$15.07	\$13.24	\$15.57	\$17.19
13-1073	Training and Development Specialists	\$18.56	\$26.22	\$20.75	\$24.84	\$28.88
53-0000	Transportation and Material Moving Occupations	\$7.90	\$13.16	\$8.70	\$12.12	\$16.37
53-6051	Transportation Inspectors	\$16.31	\$25.74	\$19.83	\$29.21	\$32.38
53-6099	Transportation Workers, All Other	\$11.32	\$14.34	\$11.82	\$13.13	\$14.68
11-3071	Transportation, Storage, and Distribution Managers	\$22.83	\$31.76	\$24.70	\$28.17	\$37.14
41-3041	Travel Agents	\$9.52	\$13.56	\$10.84	\$13.25	\$16.12
53-3032	Truck Drivers, Heavy and Tractor-Trailer	\$13.83	\$18.06	\$15.02	\$17.00	\$20.57
53-3033	Truck Drivers, Light or Delivery Services	\$8.87	\$12.30	\$9.64	\$11.67	\$15.00
51-6093	Upholsterers	\$11.20	\$17.31	\$14.49	\$19.25	\$21.35
19-3051	Urban and Regional Planners	\$18.78	\$28.34	\$24.26	\$28.75	\$34.21
39-3031	Ushers, Lobby Attendants, and Ticket Takers	\$7.12	\$11.17	\$7.40	\$9.79	\$14.82
29-1131	Veterinarians	\$39.38	\$43.94	\$39.90	\$43.93	\$49.75
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	\$7.66	\$8.79	\$7.63	\$8.29	\$8.94
29-2056	Veterinary Technologists and Technicians	\$10.38	\$13.07	\$11.85	\$13.34	\$15.24
35-3031	Waiters and Waitresses	\$6.75*	\$8.20	\$6.75*	\$7.11	\$8.28
51-8031	Water and Liquid Waste Treatment Plant and System Operators	\$16.33	\$22.59	\$18.84	\$23.32	\$26.83
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	\$10.20	\$14.53	\$11.04	\$14.30	\$17.84
51-4121	Welders, Cutters, Solderers, and Brazers	\$11.89	\$16.93	\$12.80	\$16.14	\$20.47
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	\$11.72	\$15.77	\$12.85	\$15.33	\$18.31

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-1022	Wholesale and Retail Buyers, Except Farm Products	\$11.65	\$17.79	\$13.27	\$16.40	\$21.24
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	\$8.24	\$11.06	\$8.84	\$10.50	\$13.07
43-9022	Word Processors and Typists	\$11.23	\$14.90	\$12.42	\$15.00	\$17.24
27-3043	Writers and Authors	\$12.66	\$19.83	\$12.89	\$15.36	\$25.52

#### Data

- (1) The mean of the first third of the wage distribution is provided as a proxy for entry-level wage
  - (2) For some occupations, workers may not work full-time all year-round. For these occupations it is not feasible to calculate an hourly wage.
  - (3) For occupations where a substantial portion of workers earn more than \$70.00 per hour (the top step in the 2001 OES survey), the mean hourly and annual wages cannot be reliably calculated. This may occasionally apply to the entry-level wage as well.
  - (4) An estimate of employment could not be provided.
  - (5) The "Mean Relative Standard Error" is a measure of the relative precision of the wage estimate. A low number denotes relatively high validity.
- \* The survey reference date was in the fourth quarter of 2001, when the California minimum wage was \$6.25 per hour. Since these wages were updated to 2002, and the minimum wage changed to \$6.75 per hour on January 1, 2002, wages below \$6.75 were set to \$6.75 per hour.

**Source:** Employment Development Department  
Labor Market Information Division  
(916) 262-2162





# *Projections & Planning Information*

## **Module F:**

# **Social & Economic Data**





# **PROJECTIONS AND PLANNING INFORMATION**

## **SONOMA COUNTY**

**2003**

Updated Module F: SOCIAL / ECONOMIC DATA  
Replaces through Page F-10  
(Retain Bureau of the Census Data)

**EMPLOYMENT DEVELOPMENT DEPARTMENT  
LABOR MARKET INFORMATION DIVISION**

For questions about this report, call (916) 262-2162



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# Introduction To Social And Economic Data Tables

The data for the Social and Economic Data Tables were developed from a variety of sources to aid local organizations in identifying target group needs and in making appropriate resource allocations for employment and training activities.

Terms expressed in these tables are those commonly used by the U.S. Department of Commerce, the Bureau of the Census and the various state agencies which supplied the data. (The specified source of the data is noted at the bottom of each table.) To aid users of this publication, these terms are defined in the *Explanation of Terms and Concepts* section at the back of this packet.

## Automated Access

Electronic access to current data is available through the Employment Development Department's Internet address at:

**[www.calmis.ca.gov](http://www.calmis.ca.gov)**

For technical assistance or additional information about the Employment Development Department's Labor Market Information Division Internet website, please call (916) 262-2162 or FAX (916) 262-2443 to order other publications.





**TABLE 1**  
**PUBLIC ASSISTANCE RECIPIENTS BY PROGRAM**  
**2000 - 2002**  
**SONOMA COUNTY**

Recipients by Program	July			CALIFORNIA July 2002
	2000	2001	2002	
California Work Opportunity and Responsibility To Kids (CalWORKs) (a) . . . . .	6,588	5,304	5,416	1,331,704
Adults . . . . .	1,557	1,217	1,096	297,063
Children . . . . .	5,031	4,087	4,320	1,034,641
Food Stamps (b) . . . . .	7,423	6,654	7,761	1,529,445
General Relief (c) . . . . .	199	137	162	95,718
Refugee Cash Assistance (d) . . . . .	0	0	2	1,362
Welfare to Work (e) . . . . .	1,357	1,035	1,012	266,670

Source: California Department of Social Services

To access detailed reports for county comparisons, visit the California Department of Social Services

Internet address at: <http://www.dss.cahwnet.gov/research>

CalWORKs: see report CA 237; Food Stamps: see report DFA 256;

General Relief: see report GR 237; Welfare to Work: see reports WTW 25 and WTW 25A.

(a) Data include foster care children.

(b) Includes those persons receiving public assistance payments and those not receiving public assistance payments.

(c) General Relief data for July 2001 were not available. Data provided are for March 2001.

(d) Refugee Cash Assistance data are for the third quarter and exclude CalWORKs recipients.

(e) With the passage of the Federal Personal Responsibility and Work Opportunity Act of 1996 and California's subsequent implementation of the California Work Opportunity and Responsibility to Kids Act (CalWORKs), the requirement for recipients of aid to participate in work related activities increased significantly. This number represents the number of CalWORKs recipients who have been enrolled or have been sent a notice to participate in Welfare to Work activities. These individuals may be required to participate or be willing to participate in these activities.

**TABLE 2**  
**PUBLIC ASSISTANCE RECIPIENTS (CalWORKs)**  
**CHARACTERISTICS OF RECIPIENTS 16 YEARS AND OLDER**  
**2000 - 2002**  
**SONOMA COUNTY**

Characteristics	July			CALIFORNIA July 2002
	2000	2001	2002	
Total Recipients 16+ (a) (b) . . . . .	2,280	1,840	1,880	461,210
Male . . . . .	440	350	360	88,310
Female . . . . .	1,840	1,490	1,520	373,040
16-20 . . . . .	480	390	400	97,300
21-44 . . . . .	1,620	1,310	1,340	328,710
45-54 . . . . .	140	110	110	28,150
55+ . . . . .	40	30	30	7,200
White (Not Hispanic) . . . . .	1,440	1,100	1,060	113,140
Black (Not Hispanic) . . . . .	140	100	110	101,960
Hispanic . . . . .	480	450	550	206,470
Asian & Pacific Islander . . . . .	120	100	90	33,350
American Indian . . . . .	90	80	80	3,290
Filipino . . . . .	0	*	0	3,000

(CalWORKs) California Work Opportunity And Responsibility To Kids

Source: California Department of Social Services; U.S. Department of Commerce, Bureau of the Census; Detailed data by sex, age, and race/ethnicity are extrapolations based on aggregate figures provided by the Department of Social Services.

To access the detailed report for county comparisons, visit the California Department of Social Services Internet address at: <http://www.dss.cahwnet.gov/research>  
See report ABCD 350.

(a) Includes children in Two Parent, Zero Parent, All Others and Foster Care cases.

(b) Detail may not add to total due to independent rounding.

\* less than five

**TABLE 3**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1999 - 2006**  
**SONOMA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	MEAN ANNUAL WAGE	MEDIAN HOURLY WAGE (3)
		1999(2)	2006				
49023	CASHIERS	4,920	5,780	860	17.5	\$22,455	\$8.97
49011	SALESPERSONS, RETAIL	6,610	7,460	850	12.9	\$23,616	\$9.61
19005	GENERAL MANAGERS, TOP EXECUTIVES	5,170	5,920	750	14.5	(4)	(4)
55347	GENERAL OFFICE CLERKS	4,360	5,040	680	15.6	\$25,563	\$12.06
31521	TEACHER AIDES, PARAPROFESSIONAL	1,960	2,490	530	27.0	(5)	(5)
87102	CARPENTERS	2,120	2,530	410	19.3	\$45,810	\$21.18
97105	TRUCK DRIVERS, LIGHT	2,090	2,490	400	19.1	\$25,598	\$11.67
65008	WAITERS AND WAITRESSES	3,000	3,390	390	13.0	\$17,048	\$7.11
98902	HAND PACKERS AND PACKAGERS	1,200	1,570	370	30.8	\$21,737	\$8.68
79041	LABORERS, LANDSCAPING/GROUNDSKEE	2,370	2,730	360	15.2	\$24,095	\$10.78
31305	TEACHERS--ELEMENTARY SCHOOL	2,850	3,170	320	11.2	\$46,911	(6)
67005	JANITORS, CLEANERS--EXCEPT MAIDS	2,150	2,470	320	14.9	\$21,115	\$9.43
97102	TRUCK DRIVERS, HEAVY	1,720	2,040	320	18.6	\$37,563	\$17.00
32502	REGISTERED NURSES	2,420	2,730	310	12.8	\$58,403	\$28.21
65041	COMBINED FOOD PREP AND SERVICE	2,300	2,610	310	13.5	\$17,263	\$7.95
49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	1,740	2,040	300	17.2	\$47,932	\$19.27
93956	ASSEMB, FABRICATORS--EX MACH,ELEC	2,050	2,320	270	13.2	\$27,298	\$12.65
55305	RECEPTIONISTS, INFORMATION CLERKS	2,140	2,380	240	11.2	\$27,435	\$12.47
65038	FOOD PREPARATION WORKERS	2,110	2,340	230	10.9	\$18,357	\$8.34
25104	COMPUTER SUPPORT SPECIALISTS	390	610	220	56.4	\$48,293	\$19.55

Source: Employment Development Department, Labor Market Information Division,  
Information Services Group and Occupational Employment Statistics Group

(1) Occupational Projections and OES Wages available online at [www.calmis.ca.gov](http://www.calmis.ca.gov)

(2) March 2001 Benchmark

(3) Median Hourly Wage is for the Santa Rosa Metropolitan Statistical Area (MSA), which includes Sonoma County.

(4) General Managers, Top Executives - Include the following Occupations:

Chief Executives, SOC Code 11-1011, Mean Annual Wage See (4a) - Median Hourly Wage \$57.17;

Farm, Ranch and Other Agricultural Managers, SOC Code 11-9011, Mean Annual Wage \$58,695 - Median Hourly Wage \$24.90;

Sales Managers, SOC Code 11-2022, Mean Annual Wage \$91,789 - Median Hourly Wage \$41.49;

Gaming Managers, SOC Code 11-9071, Mean Annual Wage \$79,733 - Median Hourly Wage \$35.15

(4a) For occupations where a substantial portion of workers earn more than \$70.00 per hour (the top step in the 2001 OES survey),  
the mean hourly and annual wages cannot be reliably calculated. This may occasionally apply to the entry-level wage as well

(5) Teacher Aides, Paraprofessional - Include the following Occupations:

Teacher Assistants, SOC Code 25-9041, Mean Annual Wage \$21,635 - Median Hourly Wage See (6)

Education, Training, and Library Workers, All Other, SOC Code 25-9199, Mean Annual Wage \$30,184 - Median Hourly Wage \$13.02

(6) For some occupations, workers may not work full-time all year-round. For these occupations it is not  
feasible to calculate an hourly wage.



**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 1 — San Diego Metropolitan Statistical Area**

<b>San Diego</b>							
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
<b>70% LLSIL (a)</b>							
Annual	\$8,450	\$13,850	\$19,010	\$23,460	\$27,690	\$32,380	\$4,690
6 Months	\$4,225	\$6,925	\$9,505	\$11,730	\$13,845	\$16,190	\$2,345
100%	\$12,070	\$19,780	\$27,150	\$33,510	\$39,550	\$46,250	\$6,700
<b>Poverty Guidelines (a)</b>							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

**Table 2 — Los Angeles/Riverside/Orange County Metropolitan Statistical Area**

Anaheim	Los Angeles County					San Bernardino County	
Carson/Lomita/Torrance	Orange County					SELACO	
Foothill	Riverside County					South Bay	
Long Beach	Santa Ana					Ventura	
Los Angeles City	San Bernardino City					Verdugo	
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,900	\$12,940	\$17,770	\$21,930	\$25,880	\$30,270	\$4,390
6 Months	\$3,950	\$6,470	\$8,885	\$10,965	\$12,940	\$15,135	\$2,195
100%	\$11,280	\$18,490	\$25,380	\$31,330	\$36,970	\$43,240	\$6,270
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 3 — San Francisco/Oakland/San Jose Metropolitan Statistical Area**

Alameda	Oakland				Santa Cruz		
Contra Costa	Richmond				Solano		
Marin	San Francisco				Sonoma		
Napa	San Jose						
NOVA	San Mateo						
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$8,570	\$14,040	\$19,270	\$23,790	\$28,080	\$32,840	\$4,760
6 Months	\$4,285	\$7,020	\$9,635	\$11,895	\$14,040	\$16,420	\$2,380
100%	\$12,240	\$20,060	\$27,540	\$33,990	\$40,110	\$46,910	\$6,800
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

**Table 4 — Other Metropolitan Areas**

Fresno	NoRTEC				Stanislaus		
Golden Sierra	North Central				Tulare		
Kern/Inyo/Mono	Sacramento				Yolo		
Merced	San Joaquin						
Monterey	Santa Barbara						
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,820	\$12,810	\$17,580	\$21,700	\$25,610	\$29,950	\$4,340
6 Months	\$3,910	\$6,405	\$8,790	\$10,850	\$12,805	\$14,975	\$2,170
100%	\$11,160	\$18,290	\$25,110	\$30,990	\$36,570	\$42,770	\$6,200
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540



**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 5 — Nonmetropolitan Areas**

Humboldt	Mother Lode						
Imperial	San Benito						
Kings	San Luis Obispo						
Madera							
Mendocino							
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,560	\$12,390	\$17,010	\$20,990	\$24,770	\$28,970	\$4,200
6 Months	\$3,780	\$6,195	\$8,505	\$10,495	\$12,385	\$14,485	\$2,100
100%	\$10,800	\$17,690	\$24,290	\$29,980	\$35,380	\$41,380	\$6,000
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

Source: State of California, Workforce Investment Division, Workforce Investment Act Directive,  
Number: WIAD01-18, Dated June 11, 2002.

(a) Tables 1 through 5 show the 70 percent LLSIL and the poverty guidelines for western metropolitan and nonmetropolitan areas, and for three specific Metropolitan Statistical Areas in California. In addition, each LLSIL table includes the 100 percent LLSIL that establishes the Department of Labor's minimum self-sufficiency levels. Each table specifies which areas encompass which Local Workforce Investment Area (LWIA). For a family of one, in all tables, the poverty guidelines exceed the 70 percent LLSIL and, therefore, should be used to establish the low-income status. For all other family sizes, the LLSILs exceed the poverty guidelines. The last column in each table shows the amount to be added to the figure for a family of six for each additional family member.



**TABLE 5**  
**WORKFORCE INVESTMENT ACT**  
**PLANNING INFORMATION FOR LOCAL WORKFORCE INVESTMENT AREAS**  
**SELECTED CHARACTERISTICS BY AGE**

LWIA NAME: SONOMA COUNTY  
 JURISDICTIONS INCLUDED: SONOMA COUNTY

JANUARY 10, 2003

**CHARACTERISTICS OF VARIOUS POTENTIAL CLIENT GROUPS**

<b>LABOR FORCE STATUS (1)</b>	
EMPLOYED	254,599
UNEMPLOYED	11,223
UNEMPLOYMENT RATE	4.2
NOT IN LABOR FORCE (2)	99,300
<b>2002 VETERAN INFORMATION</b>	
TOTAL VETERANS (3)	33,515
MALE	31,601
FEMALE	1,914
VIETNAM ERA VETERANS - CENSUS 2000 (4)	14,083
DISABLED VETERANS (5)	3,272
OFFENDERS (6)	4,407
% OF PEOPLE IN POVERTY: SONOMA COUNTY, 1998 (7)	8.4

**1990 CENSUS (8)**

FAMILIES IN POVERTY AS A % OF ALL FAMILIES 5.2

**CHARACTERISTICS OF ECONOMICALLY DISADVANTAGED PERSONS 14 TO 72 YEARS OLD (9)**

	14 - 15 (10)		16 - 21		22 - 54		55 - 72		Total 16 - 72	
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%
TOTAL ECONOMIC DISADVANTAGED	1,127	100.0	3,278	100.0	15,057	100.0	3,208	100.0	21,543	100.0
<b>BY RACE:</b>										
WHITE NOT HISPANIC	584	51.8	1,827	55.7	10,894	72.3	2,706	84.4	15,427	71.6
BLACK NOT HISPANIC	33	3.0	142	4.3	354	2.4	55	1.7	551	2.6
AMERICAN INDIAN NOT HISP	57	5.0	78	2.4	436	2.9	63	2.0	577	2.7
ASIAN NOT HISPANIC	176	15.6	159	4.8	1,035	6.9	96	3.0	1,290	6.0
PACIFIC ISLAND NOT HISP	0	0	0	0	0	0	0	0	0	0
HISPANIC	277	24.5	1,073	32.7	2,338	15.5	288	9.0	3,699	17.2
<b>BY SEX:</b>										
MALE	501	44.4	1,498	45.7	6,782	45.0	922	28.7	9,202	42.7
FEMALE	626	55.6	1,780	54.3	8,275	55.0	2,286	71.3	12,341	57.3
<b>HIGH SCHOOL EXPERIENCE:</b>										
DROPOUTS	105	9.3	841	25.7	3,843	25.5	938	29.2	5,622	26.1
GRADUATES	0	0	293	8.9	5,389	35.8	1,251	39.0	6,933	32.2
STUDENTS	515	45.7	770	23.5	240	1.6	30	0.9	1,040	4.8
DISABLED	35	3.1	330	10.1	2,972	19.7	1,334	41.6	4,636	21.5
LIMITED ENGLISH PROF	143	12.7	536	16.4	1,457	9.7	265	8.3	2,258	10.5

**TABLE 5**  
**WORKFORCE INVESTMENT ACT**  
**PLANNING INFORMATION FOR LOCAL WORKFORCE INVESTMENT AREAS**  
**SELECTED CHARACTERISTICS BY AGE**

Footnotes and data sources:

Source: Employment Development Department, Labor Market Information Division,  
Current Economic Statistics Group.

Note: Data provided are the most recent available.

- (1) Labor force in this category refers to civilian labor force (16 years and older). This category includes, but is not limited to, the economically disadvantaged. Labor Force data are based on preliminary data (monthly average) for the period 12/2001 through 11/2002. March 2001 Benchmark.
- (2) Not in labor force (16 years and older) are those who are not employed and not actively seeking employment. This category includes, but is not limited to, the economically disadvantaged. Not in labor force data are based on preliminary labor force data (12/01 - 11/02), Department of Finance populations estimates as of 1/02 and working age populations from 1990 census data.
- (3) Department of Veterans Affairs, Office of the Actuary, Estimated Veteran Totals, September 30, 2002, Washington, D.C.
- (4) U.S. Census Bureau, Census 2000, American FactFinder.
- (5) Department of Veterans Affairs, Statistics for Veterans Receiving Compensation and Pension Benefits, February 14, 2002, Washington, D.C.
- (6) 2001 Criminal Justice Profile, California Department of Justice.
- (7) U.S. Census Bureau. County Estimates for People of All Ages in Poverty by County: California 1998 (Estimates model 1998 income reported in the March 1999 Current Population Survey.)
- (8) Based on poverty data from the 1990 census. The 2000 census data will not be available until 2005. The economically disadvantaged population was provided by the Employment and Training Administration from a custom tabulation provided by the United States Bureau of Census.
- (9) Data for each characteristic in this section were derived by an independent estimating process using census summary data and census public use micro sample. Totals may not match other data from the same sources.
- (10) Data are not included in **Total 16 - 72** column.

**Table DP-1. Profile of General Demographic Characteristics: 2000**

Geographic Area: Sonoma County, California

[For information on confidentiality protection, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>Total population</b> .....	<b>458,614</b>	<b>100.0</b>	<b>HISPANIC OR LATINO AND RACE</b>		
<b>SEX AND AGE</b>			<b>Total population</b> .....	<b>458,614</b>	<b>100.0</b>
Male.....	225,804	49.2	Hispanic or Latino (of any race).....	79,511	17.3
Female.....	232,810	50.8	Mexican.....	63,879	13.9
Under 5 years.....	27,597	6.0	Puerto Rican.....	1,391	0.3
5 to 9 years.....	31,846	6.9	Cuban.....	359	0.1
10 to 14 years.....	33,033	7.2	Other Hispanic or Latino.....	13,882	3.0
15 to 19 years.....	32,359	7.1	Not Hispanic or Latino.....	379,103	82.7
20 to 24 years.....	27,866	6.1	White alone.....	341,686	74.5
25 to 34 years.....	58,346	12.7	<b>RELATIONSHIP</b>		
35 to 44 years.....	75,615	16.5	<b>Total population</b> .....	<b>458,614</b>	<b>100.0</b>
45 to 54 years.....	73,837	16.1	In households.....	447,512	97.6
55 to 59 years.....	23,649	5.2	Householder.....	172,403	37.6
60 to 64 years.....	16,489	3.6	Spouse.....	86,712	18.9
65 to 74 years.....	27,394	6.0	Child.....	127,137	27.7
75 to 84 years.....	22,329	4.9	Own child under 18 years.....	100,085	21.8
85 years and over.....	8,254	1.8	Other relatives.....	24,979	5.4
Median age (years).....	37.5	(X)	Under 18 years.....	8,025	1.7
18 years and over.....	346,461	75.5	Nonrelatives.....	36,281	7.9
Male.....	167,917	36.6	Unmarried partner.....	12,188	2.7
Female.....	178,544	38.9	In group quarters.....	11,102	2.4
21 years and over.....	327,576	71.4	Institutionalized population.....	3,408	0.7
62 years and over.....	67,453	14.7	Noninstitutionalized population.....	7,694	1.7
65 years and over.....	57,977	12.6	<b>HOUSEHOLD BY TYPE</b>		
Male.....	23,858	5.2	<b>Total households</b> .....	<b>172,403</b>	<b>100.0</b>
Female.....	34,119	7.4	Family households (families).....	112,397	65.2
<b>RACE</b>			With own children under 18 years.....	55,078	31.9
One race.....	439,869	95.9	Married-couple family.....	86,712	50.3
White.....	374,209	81.6	With own children under 18 years.....	40,128	23.3
Black or African American.....	6,522	1.4	Female householder, no husband present.....	17,908	10.4
American Indian and Alaska Native.....	5,389	1.2	With own children under 18 years.....	10,596	6.1
Asian.....	14,098	3.1	Nonfamily households.....	60,006	34.8
Asian Indian.....	1,498	0.3	Householder living alone.....	44,340	25.7
Chinese.....	3,007	0.7	Householder 65 years and over.....	17,171	10.0
Filipino.....	2,697	0.6	Households with individuals under 18 years.....	59,796	34.7
Japanese.....	1,631	0.4	Households with individuals 65 years and over ..	41,314	24.0
Korean.....	967	0.2	Average household size.....	2.60	(X)
Vietnamese.....	1,359	0.3	Average family size.....	3.12	(X)
Other Asian <sup>1</sup> .....	2,939	0.6	<b>HOUSING OCCUPANCY</b>		
Native Hawaiian and Other Pacific Islander.....	934	0.2	<b>Total housing units</b> .....	<b>183,153</b>	<b>100.0</b>
Native Hawaiian.....	324	0.1	Occupied housing units.....	172,403	94.1
Guamanian or Chamorro.....	117	-	Vacant housing units.....	10,750	5.9
Samoan.....	253	0.1	For seasonal, recreational, or		
Other Pacific Islander <sup>2</sup> .....	240	0.1	occasional use.....	5,965	3.3
Some other race.....	38,717	8.4	Homeowner vacancy rate (percent).....	0.8	(X)
Two or more races.....	18,745	4.1	Rental vacancy rate (percent).....	2.4	(X)
<b>Race alone or in combination with one</b>			<b>HOUSING TENURE</b>		
<b>or more other races: <sup>3</sup></b>			<b>Occupied housing units</b> .....	<b>172,403</b>	<b>100.0</b>
White.....	390,660	85.2	Owner-occupied housing units.....	110,475	64.1
Black or African American.....	9,282	2.0	Renter-occupied housing units.....	61,928	35.9
American Indian and Alaska Native.....	11,038	2.4	Average household size of owner-occupied units.....	2.61	(X)
Asian.....	19,030	4.1	Average household size of renter-occupied units.....	2.57	(X)
Native Hawaiian and Other Pacific Islander.....	2,186	0.5			
Some other race.....	46,662	10.2			

- Represents zero or rounds to zero. (X) Not applicable.

<sup>1</sup> Other Asian alone, or two or more Asian categories.

<sup>2</sup> Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.

<sup>3</sup> In combination with one or more of the other races listed. The six numbers may add to more than the total population and the six percentages may add to more than 100 percent because individuals may report more than one race.

Source: U.S. Census Bureau, Census 2000.



**Table DP-2. Profile of Selected Social Characteristics: 2000**

Geographic area: Sonoma County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>SCHOOL ENROLLMENT</b>			<b>NATIVITY AND PLACE OF BIRTH</b>		
Population 3 years and over enrolled in school.....	125,553	100.0	Total population.....	458,614	100.0
Nursery school, preschool.....	7,095	5.7	Native.....	392,888	85.7
Kindergarten.....	6,403	5.1	Born in United States.....	388,670	84.7
Elementary school (grades 1-8).....	53,030	42.2	State of residence.....	275,435	60.1
High school (grades 9-12).....	26,674	21.2	Different state.....	113,235	24.7
College or graduate school.....	32,351	25.8	Born outside United States.....	4,218	0.9
			Foreign born.....	65,726	14.3
			Entered 1990 to March 2000.....	27,076	5.9
			Naturalized citizen.....	22,335	4.9
			Not a citizen.....	43,391	9.5
<b>EDUCATIONAL ATTAINMENT</b>			<b>REGION OF BIRTH OF FOREIGN BORN</b>		
Population 25 years and over.....	306,564	100.0	Total (excluding born at sea).....	65,720	100.0
Less than 9th grade.....	20,542	6.7	Europe.....	10,366	15.8
9th to 12th grade, no diploma.....	25,695	8.4	Asia.....	10,860	16.5
High school graduate (includes equivalency).....	62,559	20.4	Africa.....	1,213	1.8
Some college, no degree.....	82,977	27.1	Oceania.....	665	1.0
Associate degree.....	27,298	8.9	Latin America.....	40,169	61.1
Bachelor's degree.....	57,711	18.8	Northern America.....	2,447	3.7
Graduate or professional degree.....	29,782	9.7			
Percent high school graduate or higher.....	84.9	(X)	<b>LANGUAGE SPOKEN AT HOME</b>		
Percent bachelor's degree or higher.....	28.5	(X)	Population 5 years and over.....	431,580	100.0
<b>MARITAL STATUS</b>			English only.....	345,971	80.2
Population 15 years and over.....	366,695	100.0	Language other than English.....	85,609	19.8
Never married.....	99,361	27.1	Speak English less than "very well".....	41,579	9.6
Now married, except separated.....	192,686	52.5	Spanish.....	59,480	13.8
Separated.....	6,772	1.8	Speak English less than "very well".....	33,146	7.7
Widowed.....	22,961	6.3	Other Indo-European languages.....	14,305	3.3
Female.....	18,597	5.1	Speak English less than "very well".....	3,387	0.8
Divorced.....	44,915	12.2	Asian and Pacific Island languages.....	9,535	2.2
Female.....	27,032	7.4	Speak English less than "very well".....	4,365	1.0
<b>GRANDPARENTS AS CAREGIVERS</b>			<b>ANCESTRY (single or multiple)</b>		
Grandparent living in household with one or more own grandchildren under 18 years.....	7,464	100.0	Total population.....	458,614	100.0
Grandparent responsible for grandchildren.....	2,451	32.8	Total ancestries reported.....	538,663	117.5
<b>VETERAN STATUS</b>			Arab.....	1,438	0.3
Civilian population 18 years and over ..	346,414	100.0	Czech <sup>1</sup> .....	2,765	0.6
Civilian veterans.....	44,061	12.7	Danish.....	6,787	1.5
<b>DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION</b>			Dutch.....	8,656	1.9
Population 5 to 20 years.....	102,611	100.0	English.....	60,547	13.2
With a disability.....	7,197	7.0	French (except Basque) <sup>1</sup> .....	18,892	4.1
Population 21 to 64 years.....	269,047	100.0	French Canadian <sup>1</sup> .....	2,827	0.6
With a disability.....	47,423	17.6	German.....	73,600	16.0
Percent employed.....	58.7	(X)	Greek.....	2,496	0.5
No disability.....	221,624	82.4	Hungarian.....	2,130	0.5
Percent employed.....	79.9	(X)	Irish <sup>1</sup> .....	66,502	14.5
Population 65 years and over.....	55,797	100.0	Italian.....	43,955	9.6
With a disability.....	21,149	37.9	Lithuanian.....	1,166	0.3
<b>RESIDENCE IN 1995</b>			Norwegian.....	10,895	2.4
Population 5 years and over.....	431,580	100.0	Polish.....	8,972	2.0
Same house in 1995.....	224,549	52.0	Portuguese.....	8,721	1.9
Different house in the U.S. in 1995.....	194,290	45.0	Russian.....	6,812	1.5
Same county.....	124,556	28.9	Scotch-Irish.....	9,608	2.1
Different county.....	69,734	16.2	Scottish.....	14,045	3.1
Same state.....	52,332	12.1	Slovak.....	374	0.1
Different state.....	17,402	4.0	Subsaharan African.....	1,913	0.4
Elsewhere in 1995.....	12,741	3.0	Swedish.....	11,122	2.4
			Swiss.....	3,981	0.9
			Ukrainian.....	905	0.2
			United States or American.....	16,826	3.7
			Welsh.....	5,077	1.1
			West Indian (excluding Hispanic groups).....	411	0.1
			Other ancestries.....	147,240	32.1

-Represents zero or rounds to zero. (X) Not applicable.

<sup>1</sup>The data represent a combination of two ancestries shown separately in Summary File 3. Czech includes Czechoslovakian. French includes Alsatian. French Canadian includes Acadian/Cajun. Irish includes Celtic.

Source: U.S. Bureau of the Census, Census 2000.

Geographic area: Sonoma County, California

-Represents zero or rounds to zero. (X) Not applicable.  
 \*If the denominator of a mean value or per capita value is less than 30, then that value is calculated using a rounded aggregate in the numerator.  
 See text.  
 Source: U.S. Bureau of the Census, Census 2000.



**Table DP-4. Profile of Selected Housing Characteristics: 2000**

Geographic area: Sonoma County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>Total housing units.....</b>	<b>183,153</b>	<b>100.0</b>	<b>OCCUPANTS PER ROOM</b>		
<b>UNITS IN STRUCTURE</b>			<b>Occupied housing units .....</b>	<b>172,403</b>	<b>100.0</b>
1-unit, detached .....	125,480	68.5	1.00 or less.....	160,616	93.2
1-unit, attached .....	13,940	7.6	1.01 to 1.50 .....	5,565	3.2
2 units .....	4,475	2.4	1.51 or more.....	6,222	3.6
3 or 4 units .....	7,220	3.9			
5 to 9 units .....	5,132	2.8	<b>Specified owner-occupied units .....</b>	<b>91,606</b>	<b>100.0</b>
10 to 19 units .....	4,187	2.3	<b>VALUE</b>		
20 or more units .....	11,338	6.2	Less than \$50,000.....	337	0.4
Mobile home.....	10,785	5.9	\$50,000 to \$99,999.....	999	1.1
Boat, RV, van, etc.....	596	0.3	\$100,000 to \$149,999.....	4,975	5.4
			\$150,000 to \$199,999.....	13,022	14.2
<b>YEAR STRUCTURE BUILT</b>			\$200,000 to \$299,999.....	35,096	38.3
1999 to March 2000 .....	3,526	1.9	\$300,000 to \$499,999.....	27,870	30.4
1995 to 1998 .....	10,018	5.5	\$500,000 to \$999,999.....	8,312	9.1
1990 to 1994 .....	16,237	8.9	\$1,000,000 or more.....	995	1.1
1980 to 1989 .....	37,836	20.7	Median (dollars).....	273,200	(X)
1970 to 1979 .....	42,446	23.2			
1960 to 1969 .....	26,048	14.2	<b>MORTGAGE STATUS AND SELECTED</b>		
1940 to 1959 .....	30,413	16.6	<b>MONTHLY OWNER COSTS</b>		
1939 or earlier .....	16,629	9.1	With a mortgage .....	71,076	77.6
			Less than \$300 .....	85	0.1
<b>ROOMS</b>			\$300 to \$499 .....	1,011	1.1
1 room .....	4,197	2.3	\$500 to \$699 .....	2,569	2.8
2 rooms .....	10,826	5.9	\$700 to \$999 .....	7,079	7.7
3 rooms .....	17,735	9.7	\$1,000 to \$1,499 .....	21,855	23.9
4 rooms .....	32,028	17.5	\$1,500 to \$1,999 .....	20,712	22.6
5 rooms .....	41,118	22.5	\$2,000 or more .....	17,765	19.4
6 rooms .....	34,530	18.9	Median (dollars).....	1,535	(X)
7 rooms .....	22,090	12.1	Not mortgaged .....	20,530	22.4
8 rooms .....	12,708	6.9	Median (dollars).....	330	(X)
9 or more rooms .....	7,921	4.3			
Median (rooms) .....	5.2	(X)	<b>SELECTED MONTHLY OWNER COSTS</b>		
			<b>AS A PERCENTAGE OF HOUSEHOLD</b>		
<b>Occupied housing units .....</b>	<b>172,403</b>	<b>100.0</b>	<b>INCOME IN 1999</b>		
<b>YEAR HOUSEHOLDER MOVED INTO UNIT</b>			Less than 15.0 percent.....	25,481	27.8
1999 to March 2000 .....	31,734	18.4	15.0 to 19.9 percent .....	13,124	14.3
1995 to 1998 .....	53,112	30.8	20.0 to 24.9 percent .....	12,763	13.9
1990 to 1994 .....	30,322	17.6	25.0 to 29.9 percent .....	10,841	11.8
1980 to 1989 .....	31,227	18.1	30.0 to 34.9 percent .....	7,832	8.5
1970 to 1979 .....	16,728	9.7	35.0 percent or more .....	21,038	23.0
1969 or earlier .....	9,280	5.4	Not computed.....	527	0.6
<b>VEHICLES AVAILABLE</b>			<b>Specified renter-occupied units .....</b>	<b>60,029</b>	<b>100.0</b>
None .....	9,921	5.8	<b>GROSS RENT</b>		
1 .....	54,446	31.6	Less than \$200 .....	1,214	2.0
2 .....	69,169	40.1	\$200 to \$299 .....	1,469	2.4
3 or more .....	38,867	22.5	\$300 to \$499 .....	3,858	6.4
			\$500 to \$749 .....	13,456	22.4
<b>HOUSE HEATING FUEL</b>			\$750 to \$999 .....	18,800	31.3
Utility gas .....	120,377	69.8	\$1,000 to \$1,499 .....	15,468	25.8
Bottled, tank, or LP gas .....	12,057	7.0	\$1,500 or more .....	3,356	5.6
Electricity .....	30,177	17.5	No cash rent.....	2,408	4.0
Fuel oil, kerosene, etc .....	345	0.2	Median (dollars).....	864	(X)
Coal or coke .....	25	-			
Wood .....	8,374	4.9	<b>GROSS RENT AS A PERCENTAGE OF</b>		
Solar energy.....	124	0.1	<b>HOUSEHOLD INCOME IN 1999</b>		
Other fuel .....	485	0.3	Less than 15.0 percent.....	8,585	14.3
No fuel used.....	439	0.3	15.0 to 19.9 percent .....	7,909	13.2
			20.0 to 24.9 percent .....	8,260	13.8
<b>SELECTED CHARACTERISTICS</b>			25.0 to 29.9 percent .....	7,354	12.3
Lacking complete plumbing facilities .....	840	0.5	30.0 to 34.9 percent .....	5,245	8.7
Lacking complete kitchen facilities .....	952	0.6	35.0 percent or more .....	19,579	32.6
No telephone service .....	1,228	0.7	Not computed.....	3,097	5.2

-Represents zero or rounds to zero. (X) Not applicable.

Source: U.S. Bureau of the Census, Census 2000.



# Explanation Of Terms And Concepts

**American Indian and Alaska Native:** A person having origins in any of the original peoples of North and South America (including Central America), and who maintain tribal affiliation or community attachment.

**Asian:** A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent.

**Black or African American:** A person having origins in any of the Black racial groups of Africa.

**CalWORKs:** California Work Opportunity and Responsibility to Kids is a state designed public assistance program. Focus is on work and training; those who seek welfare must also seek work. Time and aid limits apply.

**Food Stamp Recipient:** A person receiving food stamp coupons that can be exchanged for groceries.

**General Relief:** A county administered assistance program which includes interim payments to the disabled, and payments to individuals who are ineligible for other assistance programs, such as CalWORKs and Refugee Cash Assistance.

**Hispanic:** Census 2000 adheres to the federal standards for collecting and presenting data on race and Hispanic origin as established by the Office of Management and Budget (OMB) in October 1997. The OMB defines Hispanic or Latino as "a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin regardless of race."

**Native Hawaiian and Other Pacific Islander:** A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

**Public Assistance Recipient:** A person receiving cash welfare payments and/or nonmonetary benefits under federal, state, or local welfare programs.

**Refugee Cash Assistance:** A cash assistance and employment services program designed for adults without children who have official status as refugee, and who have been in the United States for less than eight months. Aid is limited to eight months.

**Some Other Race:** Includes all other census responses not included in the "White," "Black or African American," "American Indian and Alaska Native," "Asian," and the "Native Hawaiian and Other Pacific Islander" race categories. Respondents providing write-in entries such as multiracial, mixed, interracial, or a Hispanic/Latino group (for example, Mexican, Puerto Rican, or Cuban) are included in this category.

**Two or More Races:** Refers to a classification of census respondents who chose to provide two or more races.

**Veteran:** A person who has served but is not now serving in the armed forces of the United States.

**Vietnam-Era Veteran:** A person who served between August 5, 1964, and May 7, 1975, but is not now serving in the armed forces of the United States.

**Welfare-To-Work Program:** The Welfare-To-Work Program helps family members acquire the skills needed to get a job. The county will determine if a family must participate in Welfare-To-Work activities as a requirement for CalWORKs. Families may also volunteer to participate.

**White:** A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

# Examination Of Terms

## 1. Introduction

The purpose of this examination is to identify and define the key terms used in the document. This will help to ensure a common understanding of the terminology used throughout the text.

The terms identified in this examination are listed below, along with their definitions as provided in the document.

The first term identified is "Project". The document defines this term as "a temporary endeavor undertaken to create a unique product, service, or result".

The second term identified is "Stakeholder". The document defines this term as "any individual, group, or organization that can affect or be affected by the project's success or failure".

The third term identified is "Risk". The document defines this term as "an uncertain event or condition that, if it occurs, has a positive or negative effect on one or more project objectives".

The fourth term identified is "Resource". The document defines this term as "any individual, group, or organization that provides the project with the necessary inputs to achieve its objectives".

The fifth term identified is "Communication". The document defines this term as "the exchange of information between project stakeholders".

The sixth term identified is "Change". The document defines this term as "any modification to the project's scope, schedule, or resources".

The seventh term identified is "Quality". The document defines this term as "the degree to which the project's outputs meet the requirements of the stakeholders".

The eighth term identified is "Performance". The document defines this term as "the degree to which the project's outputs meet the requirements of the stakeholders".

The ninth term identified is "Success". The document defines this term as "the degree to which the project's outputs meet the requirements of the stakeholders".

The tenth term identified is "Failure". The document defines this term as "the degree to which the project's outputs meet the requirements of the stakeholders".



# Labor Market Information For Nondiscrimination Programs

## SONOMA COUNTY

This report contains 1990 census population, labor force data, and occupational information for use in developing nondiscrimination programs, as required for federal and state contract compliance. The information in this series of reports is presented by county, because a county often constitutes the normal recruiting area for employers. However, separate reports are available for multi-county Metropolitan Statistical Areas (MSAs) and Consolidated Metropolitan Statistical Areas (CMSAs). Employers may wish to combine data for two or more counties, to co-

incide with the particular boundaries of their firm's recruiting area. The occupational groups listed in this report are those most often used in developing nondiscrimination programs (see next page for a comparison with California Department of Fair Employment and Housing's job categories). If more information about specific occupations is needed, the California Department of Finance's State Census Data Center, (916) 323-4086, has an 86-page detailed occupation report available for purchase.

Technical Note: This information is drawn from the 1990 Census of Population and Housing. The population data in Table 1 and the labor force data in Tables 2A, 2B and 2C are from Summary Tape File 4B. The occupational information in Tables 3, 4 and 5 is from the Equal Employment Opportunity (EEO) File.

### List of Tables

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### Note to Users

The information contained in this publication is general in nature and is provided to assist employers in meeting nondiscrimination obligations. However, this information may not include all of the specific requirements with which federal and state contractors must conform in making a comprehensive utilization analysis. Reference should be made to Code of Federal Regulations, Title 41, Subtitle B, chapter 60, Section 60-2.11 or California Code of Regulations, Title 2, Division 4, Chapter 5 for complete utilization analysis requirements.

Any questions regarding nondiscrimination requirements should be directed to the government agency issuing the contract or:

U.S. Department of Labor

Office of Federal Contract Compliance  
(415) 848-6969

California Department of Fair Employment  
and Housing

Office of Compliance Programs  
(916) 227-2888

### Note to California Employer Identification Report (CEIR) Respondents

The job categories listed on the California Employer Identification Report (CEIR) differ from the occupational group titles listed in this report (and the EEO file); however, the occupations contained within the job categories are essentially the same as those included in the occupational groups. Therefore, a direct relationship exists between CEIR job categories and occupational groups listed in this report. The following table shows that relationship:

<u>CEIR Category</u>	<u>EDD/EEO Occupational Group</u>
Officials and Managers	Executive, Administrative, and Managerial
Professional	Professional Specialty
Technicians	Technicians and Related Support
Sales	Sales
Office and Clerical	Office/Clerical
Craft Worker	Precision Production, Craft and Repair
Operatives	Machine Operators, Assemblers and Inspectors & Transportation and Material Moving
Laborers	Handlers, Equipment Cleaners, Helpers, Laborers
Service Workers	Services

For further information, contact the California Department of Fair Employment and Housing, Office of Compliance Programs:  
(916) 227-2888.

For additional copies of this publication or other labor market information, contact the Employment Development Department's Labor Market Information Division:  
(916) 262-2162.